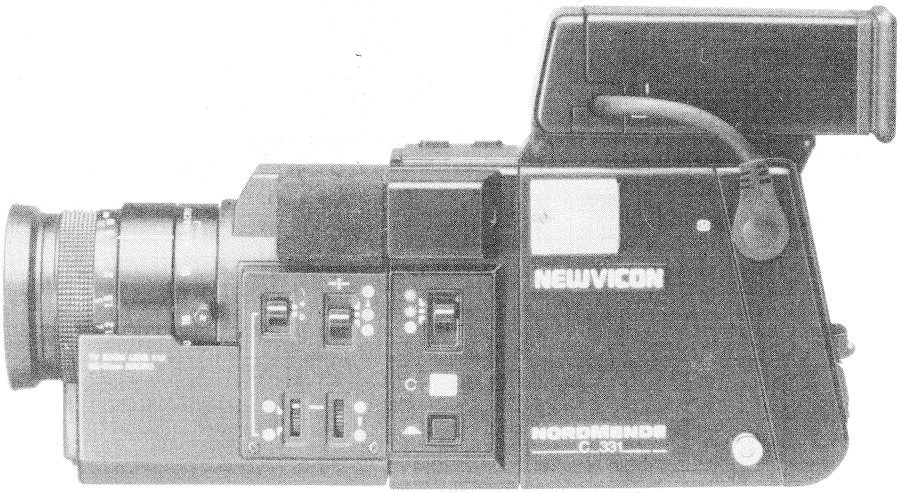
TECHNISCHER KUNDENDIENST
Service · Manual



video camera C 331 984.351 H
TITELGENERATOR G 331 984.377 H

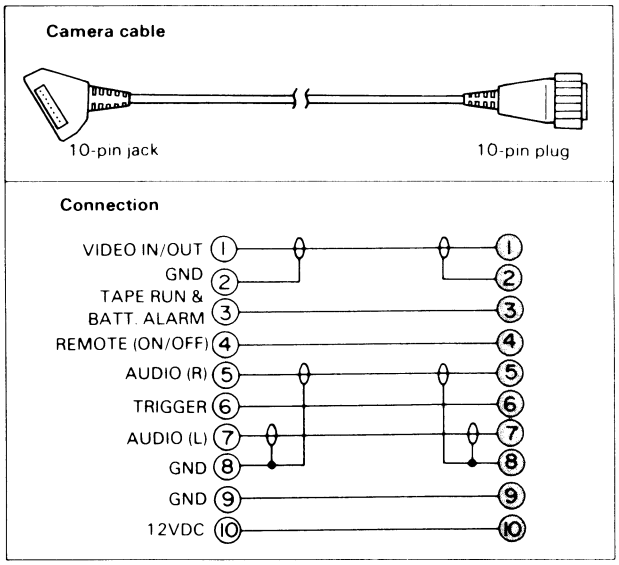
Inhaltsverzeichnis	Seite
Camerakabel	2
Änderungen	2
Stromversorgung	3
Anschlußbilder Halbleiter	3
Verdrahtungsplan	4
Blockschaltbild	5
Elektronischer Sucher	7
Grundplatte-Schaltbild	9
-Schaltungsplatte	11
Vorverstärker	13
A Audio-Platte	14
B Schwarzwertklemmung und Y/C-Trennstufe	15
C Trägermatrix-Platte	16
D R/B-Detektor-Platte	17
E Dunkelstromregelung/Weißabgleich-Platte	18
F Color-Gamma-Platte	19
G Farbdifferenzprozessor-Platte	20
H Platte Y-Verstärkungsregelung	21
J Encoderplatte	22
K Synchron-Signal-Platte	23
L Platte Start/Stopfunktion, Aufnahme und Akku-Anzeigen	24
Schaltbild Titelgenerator	25
Leiterplatten Titelgenerator	27

Index	Page
Camera cable	2
Modifications	2
Switch regulator	3
Pin location semi-conductors	3
Wiring diagram	4
Block diagram	5
Electronic Viewfinder	7
Motherboard-circuit diagram	9
-PCB	11
Preamplifier	13
A Audio board	14
B Pre process board	15
C Carrier matrix board	16
D Detector board	17
E Black set/auto white board	18
F Color gamma board	19
G Color differential processor board	20
H Autom. gain control board	21
J Encoder board	22
K Signal-Sync-Generator board	23
L Trigger, run-/battery-alarm board	24
Circuit diagram character generator	25
P.C.B.'s character generator	27

NORDMENDE

Diese Angaben und Hinweise sind ausschließlich für den Service des Fachhändlers bestimmt · Änderungen vorbehalten
These instructions are for service dealers only · Subject to modification

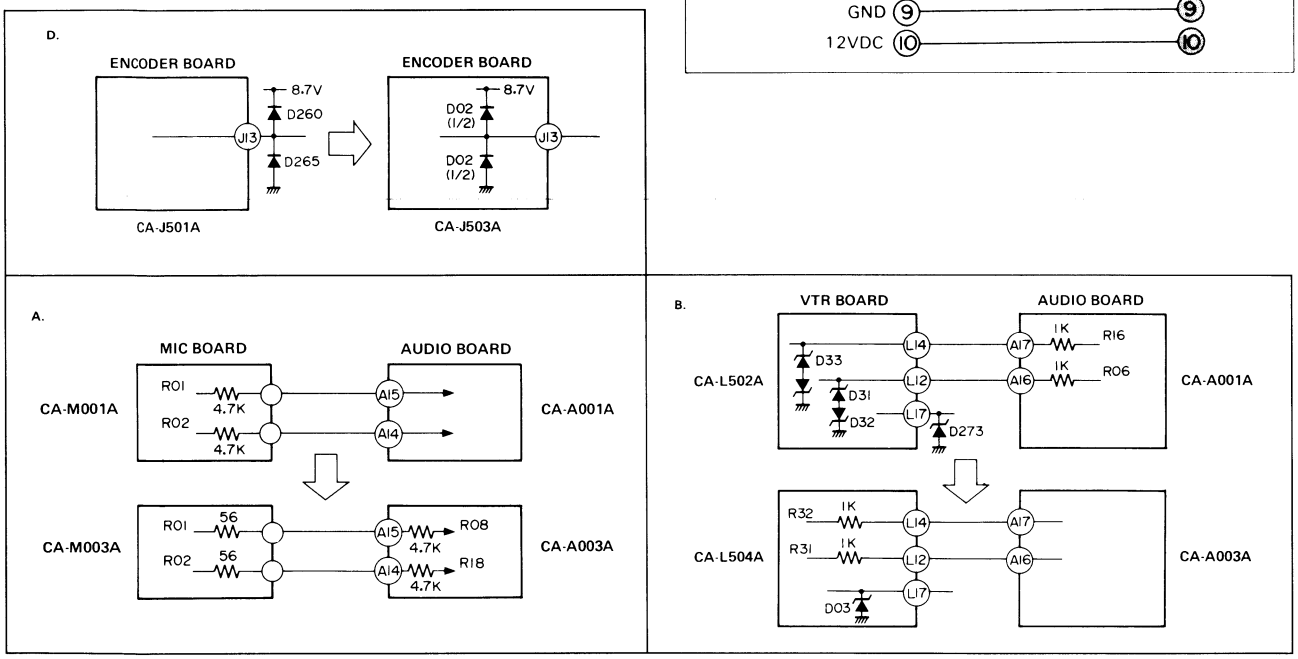
Camerakabel · Camera cable



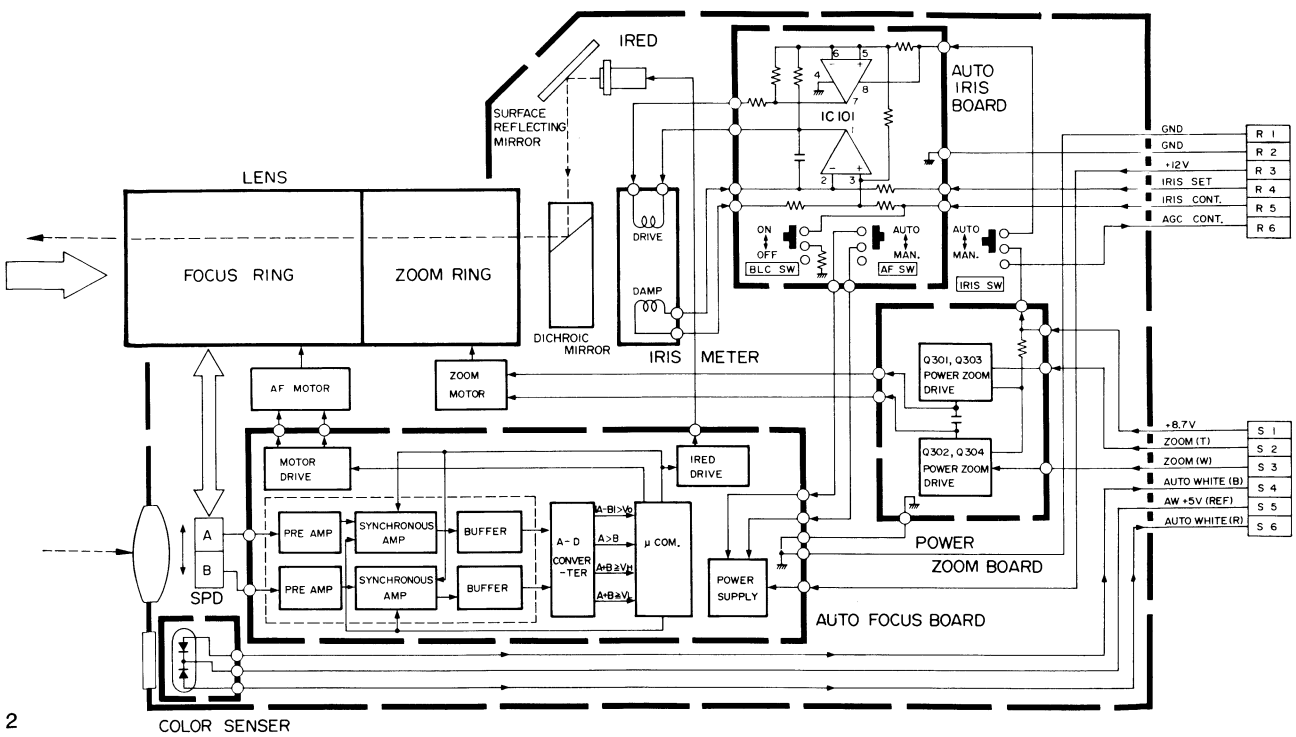
Änderungen · Modifications

Einige Schaltungsplatten wurden in der laufenden Produktion geändert:

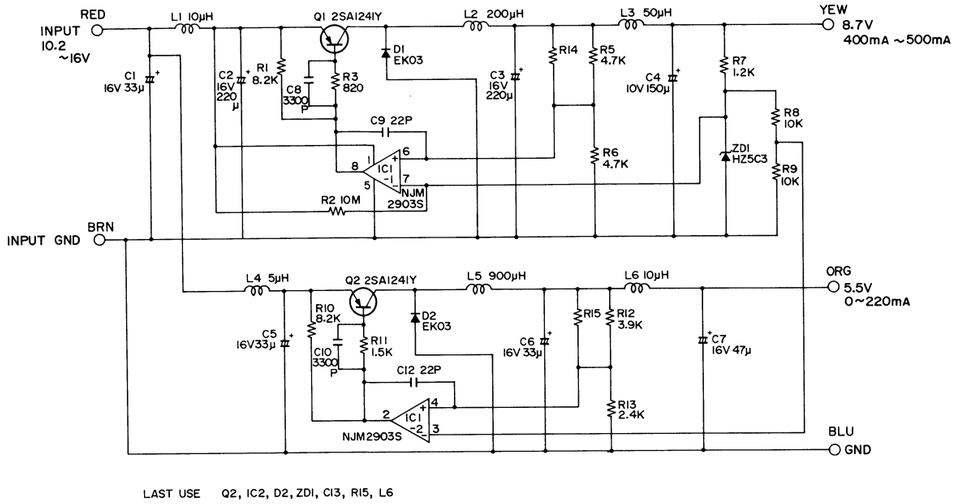
Some circuit boards have been changed in running production:



Blockschaltbild Objektiv · Block diagram of lens

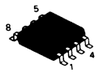


Stromversorgung · Switch regulator

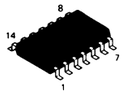


LAST USE Q2, IC2, D2, ZD1, CI3, RI5, L6

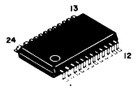
Anschlußbilder · Pin arrangements



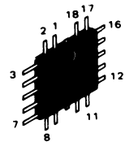
MN8029S (8 pin)
NJM082M (8 pin)
µPC4558G (8 pin)



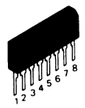
µPC4741G(14 pin)
µPD4013BG (14 pin)
M51545P (16 pin)



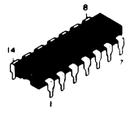
BA7020F (22 pin)
M51261P (20 pin)
M51262P (22 pin)
M51263P (24 pin)
M51264P (28 pin)



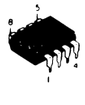
HA11720MP (18 pin)
HA11748B (28 pin)



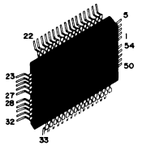
N5232L (8 pin)



SN76670 (N) (14 pin)



NJM3413D (8 pin)



HD61907 (54 pin)

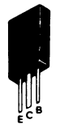
CHIP TRANSISTOR
2SA1022(QR)
2SA1034(R-T)
2SB709(QR)
2SB2709(P-R)
2SC2405(R-T)
2SC2778(C,D)
2SD601(QR)
2SD601A(QR)
2SD1030(RS)
CHIP FET
2SK198(Q)

2SA564(R)
2SA564A(Q)
2SA683
2SA844(C)
2SA893A
2SA921(R-T)
2SC458
2SC829(C)
2SC1213
2SC1685(R)
2SC1890A(E,F)
2SD889(QR)
2SD974

2SK218(P)

2SA673A
2SB605(L)
2SC454(C)
2SD571(L)

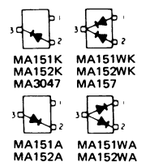
2SA798
2SC2259



Heat Sink
2SD781
2SD975

2SB778T
2SB788(T)
2SC2647(C)
2SD638
2SD958

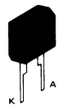
CHIP DIODE



MA151K MA151WK
MA152K MA152WK
MA3047 MA157
MA151A MA151WA
MA152A MA152WA

CHIP ZENER DIODE

MA3062
MA3075
MA3051



VARIABLE CAPACITOR

KV-1236XY

DIODE

MA522R

DIODE
VD1121
VD1222

DIODE
1SS16
1SS99
1SS133-Y

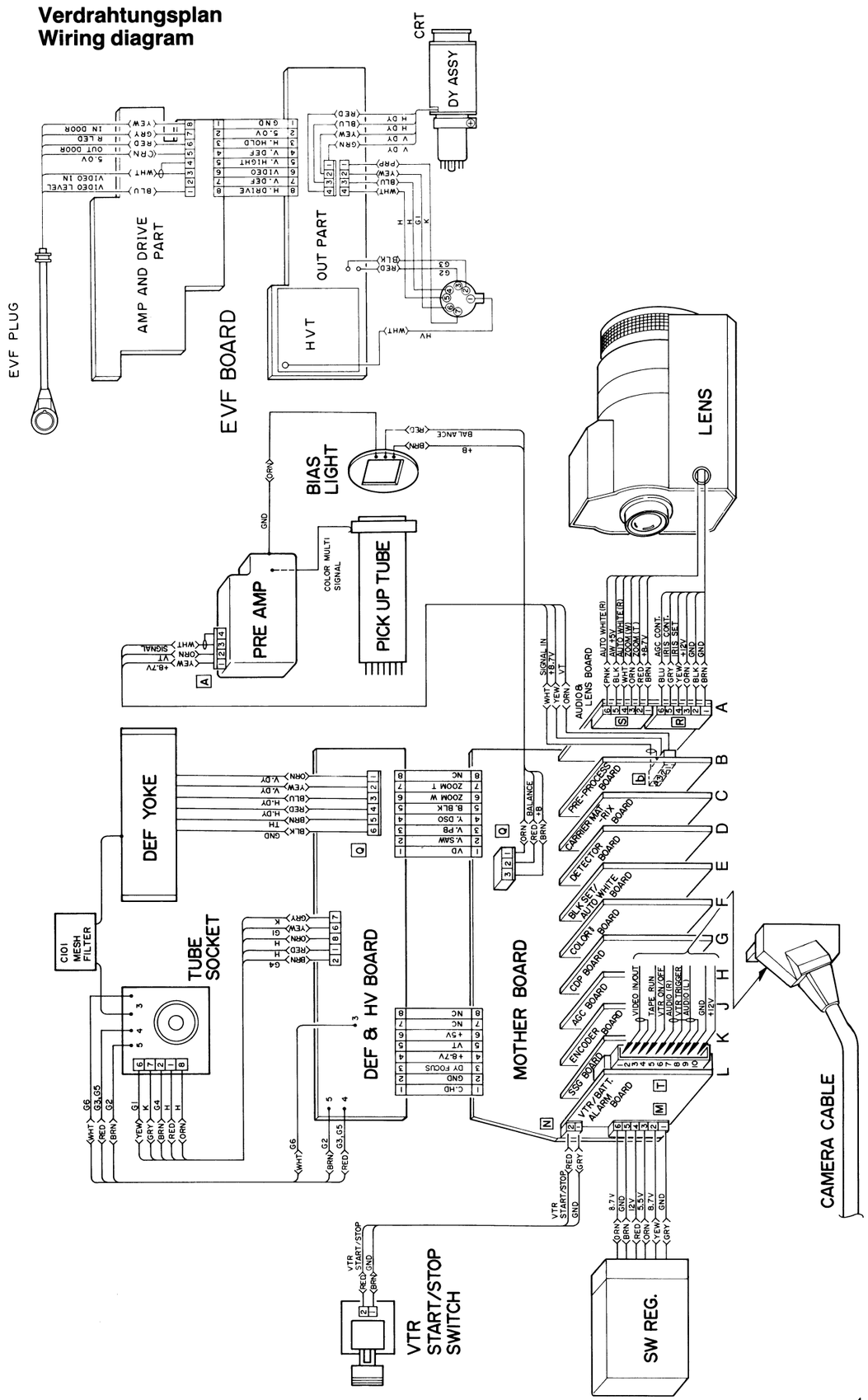
DIODE
V05E
V06C
V09E
V09G

DIODE
W06A
1SS81
1S2473H
1S2076
HV70FB

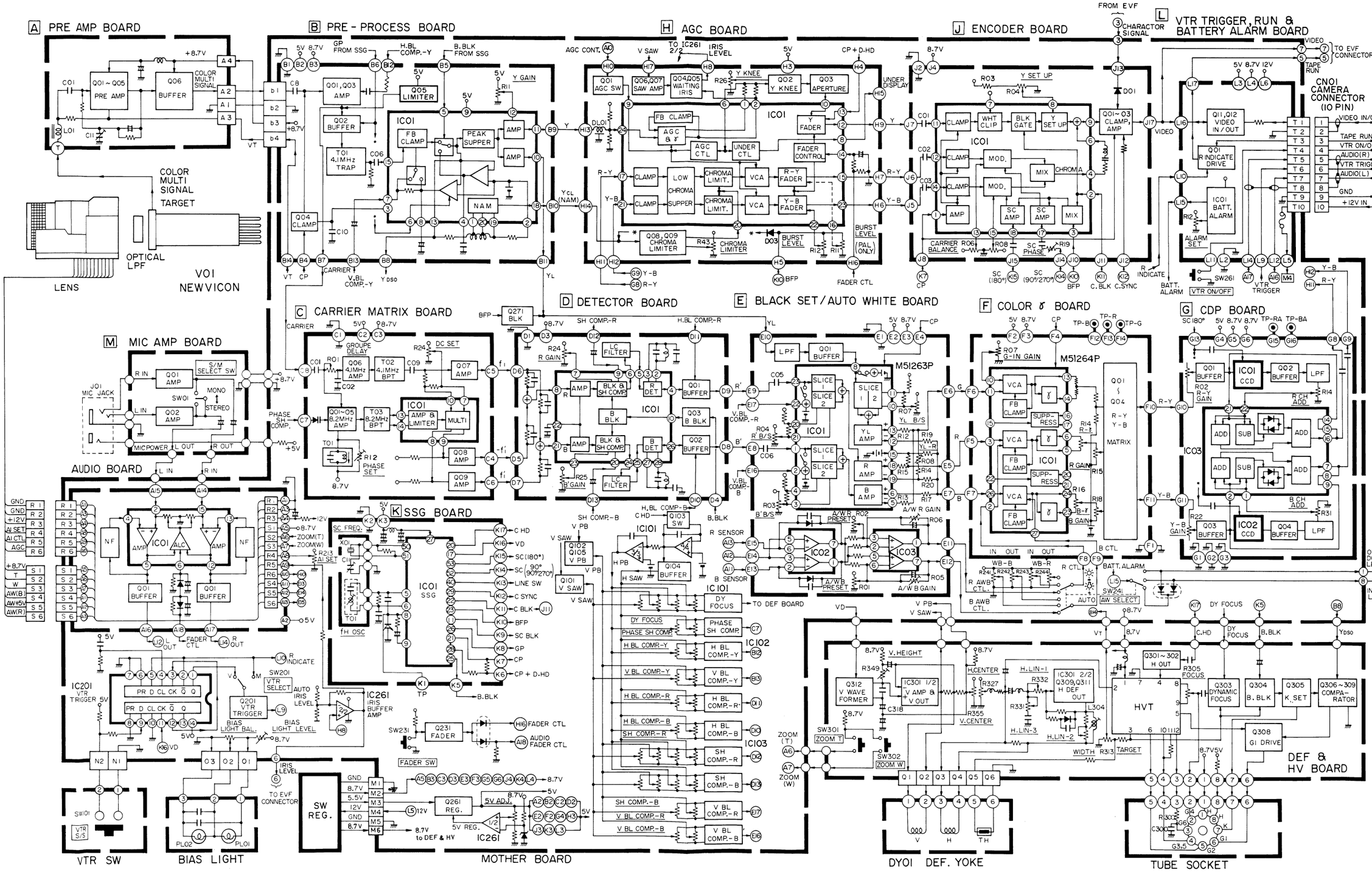
ZENER DIODE
RD2.7E(B)
RD5.6E(B3)
RD6.2E(B2)
RD7.5E(B2)
RD10E(B)
RD12E(B)
RD15E(B)

VARIABLE CAPACITOR DIODE
1SV68

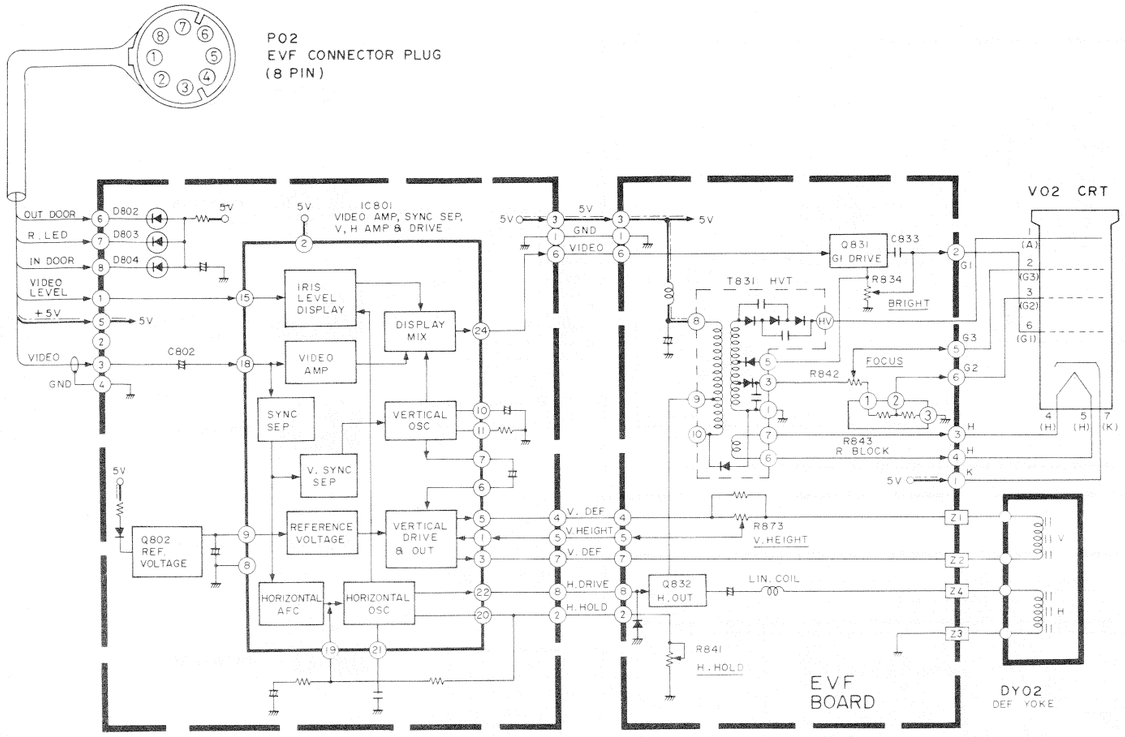
Verdrahtungsplan
Wiring diagram

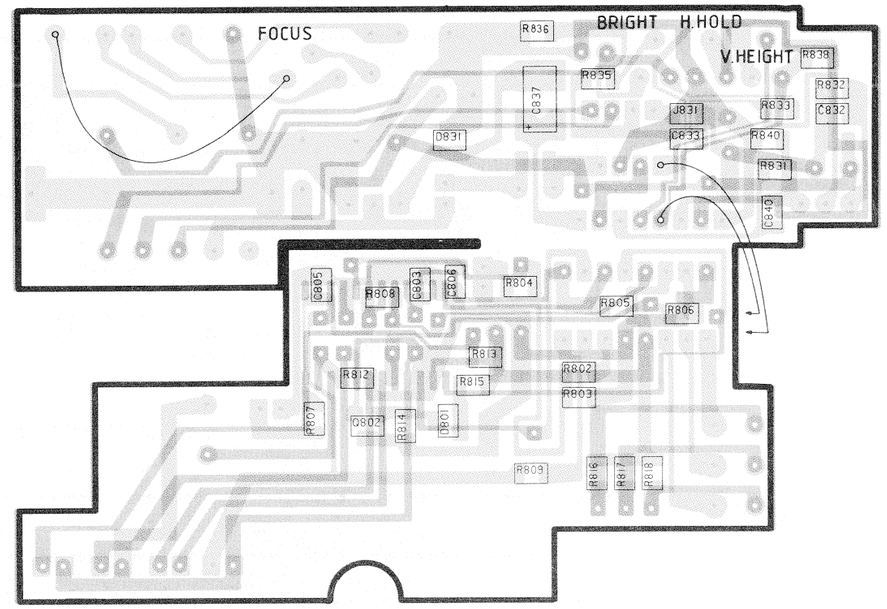


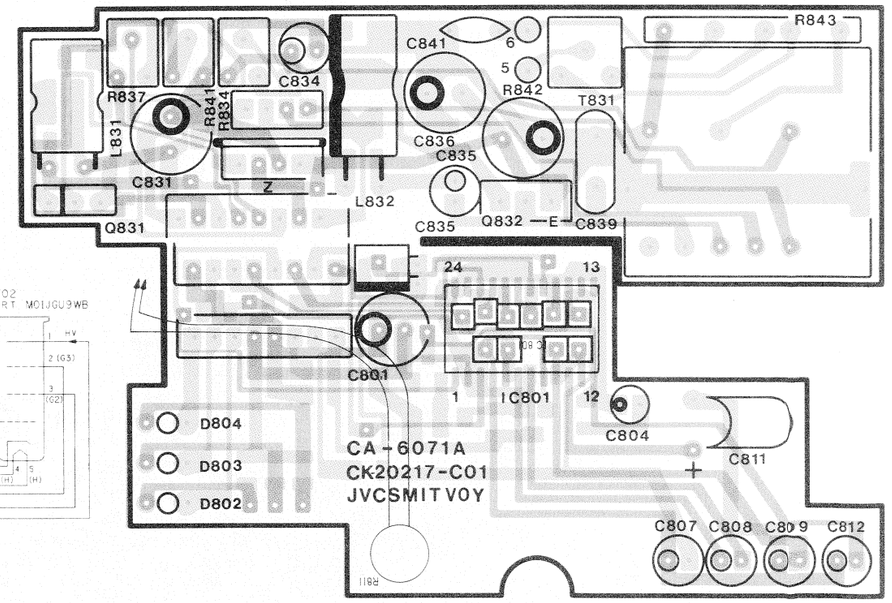
Blockschaltbild
Block diagram

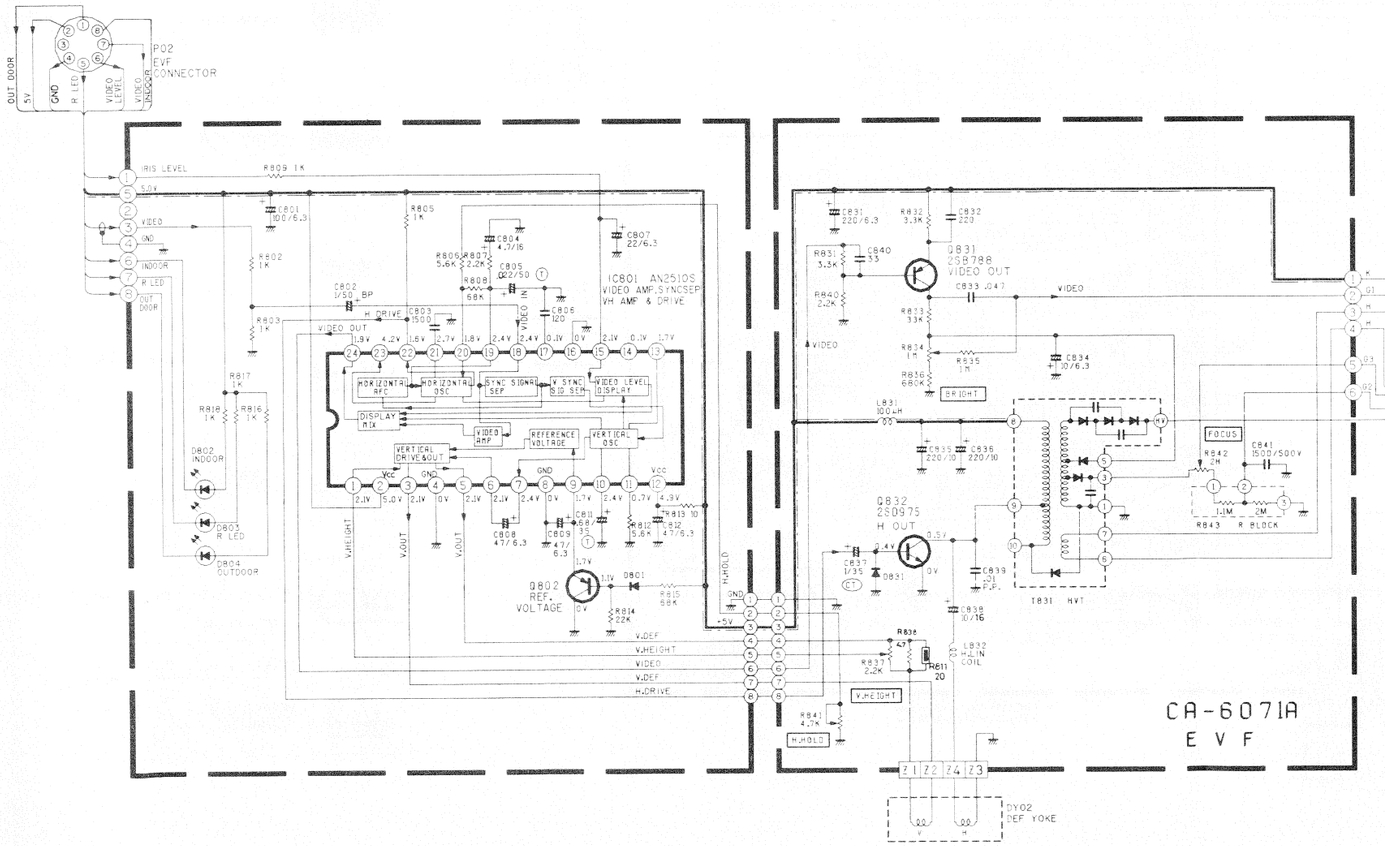


Elektronischer Sucher · EVF

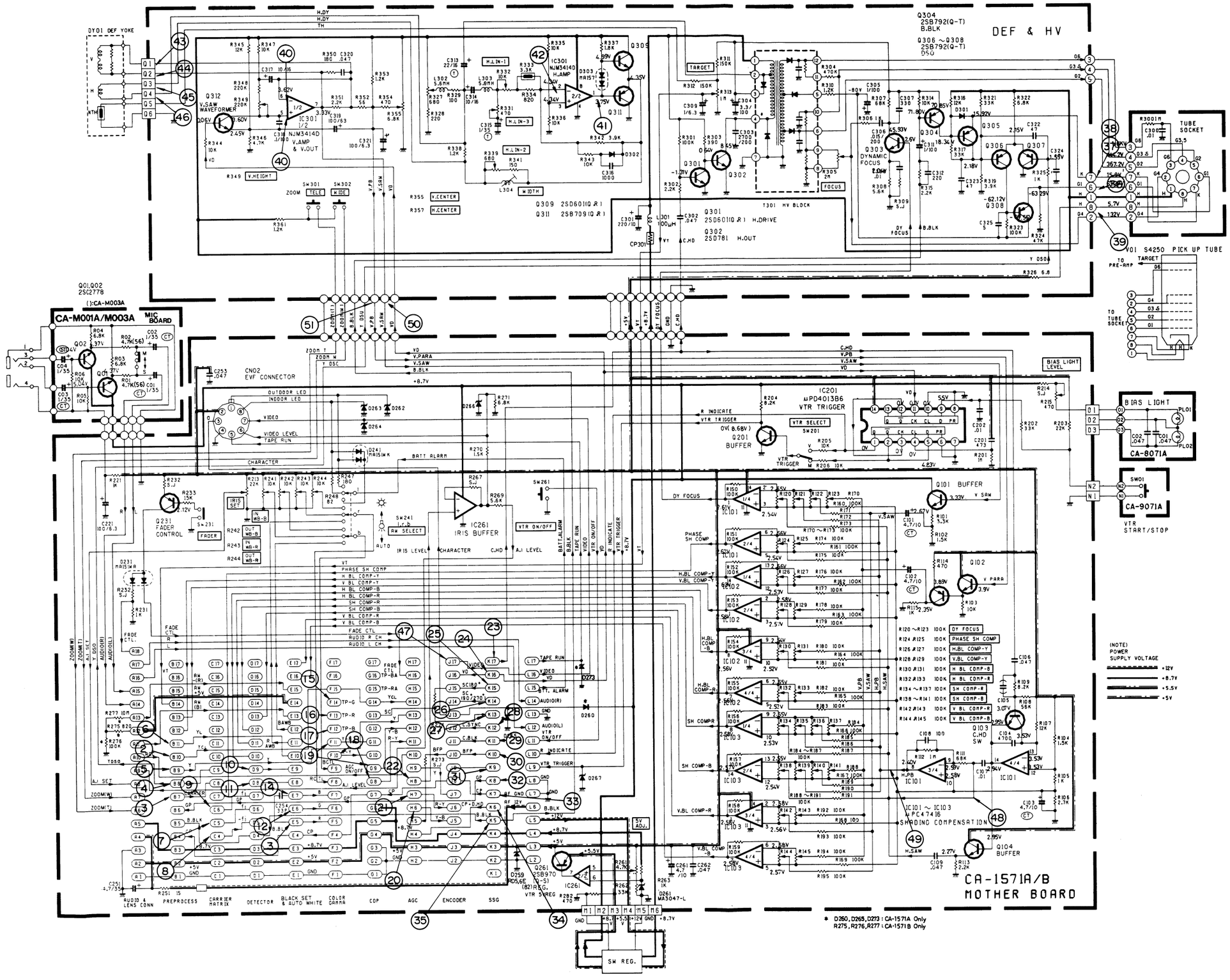


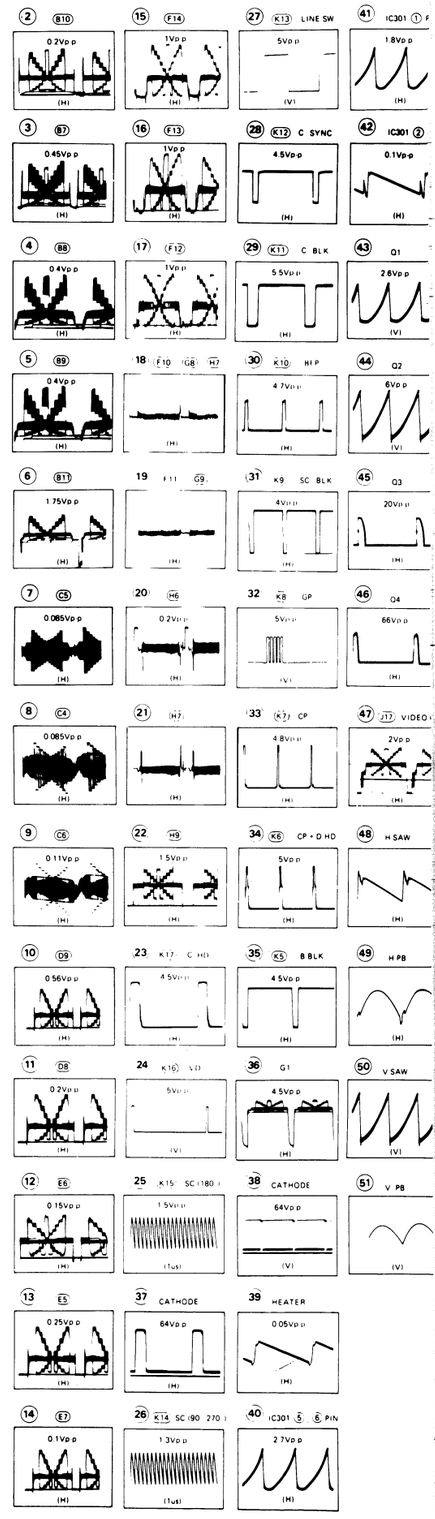




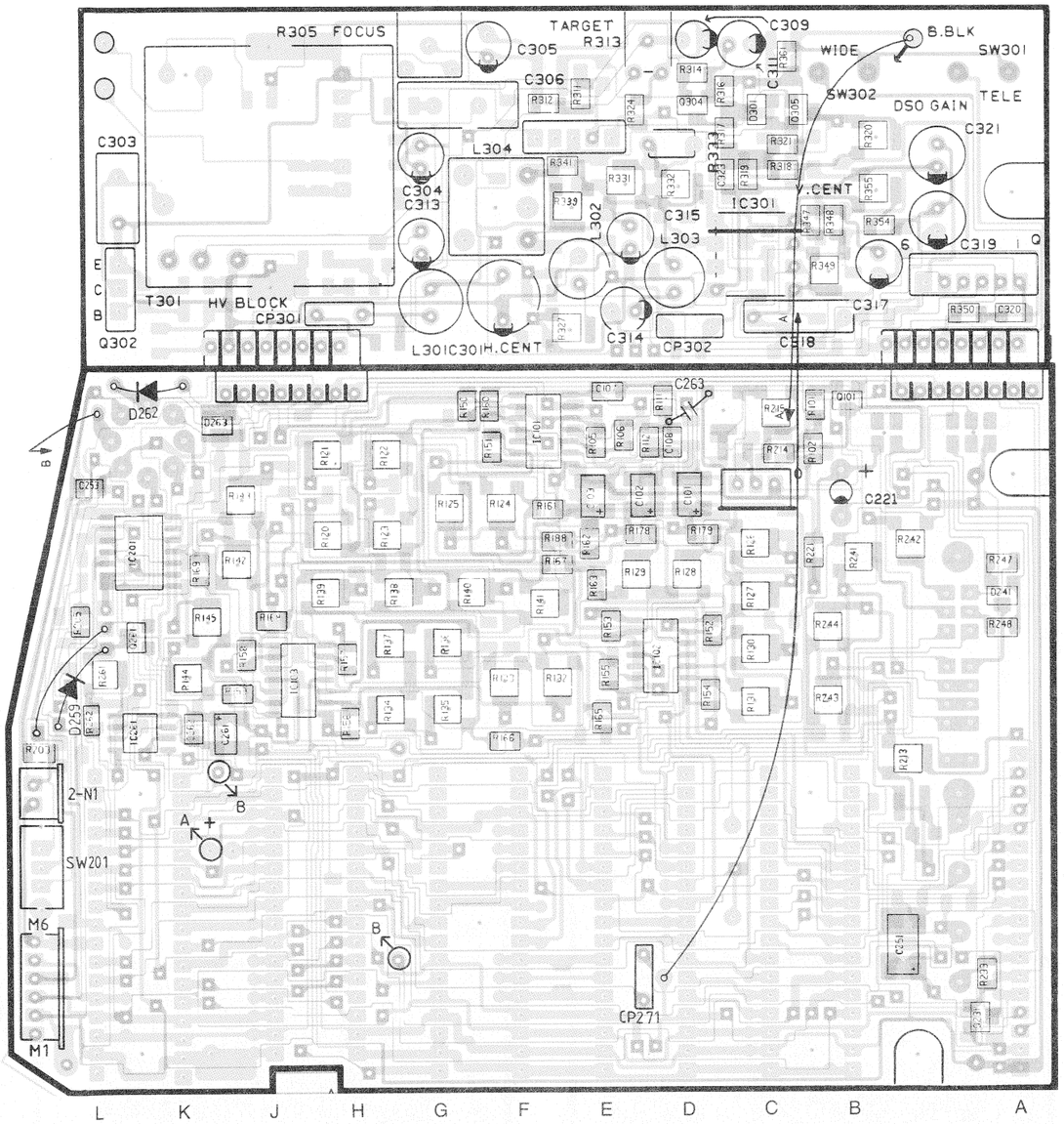


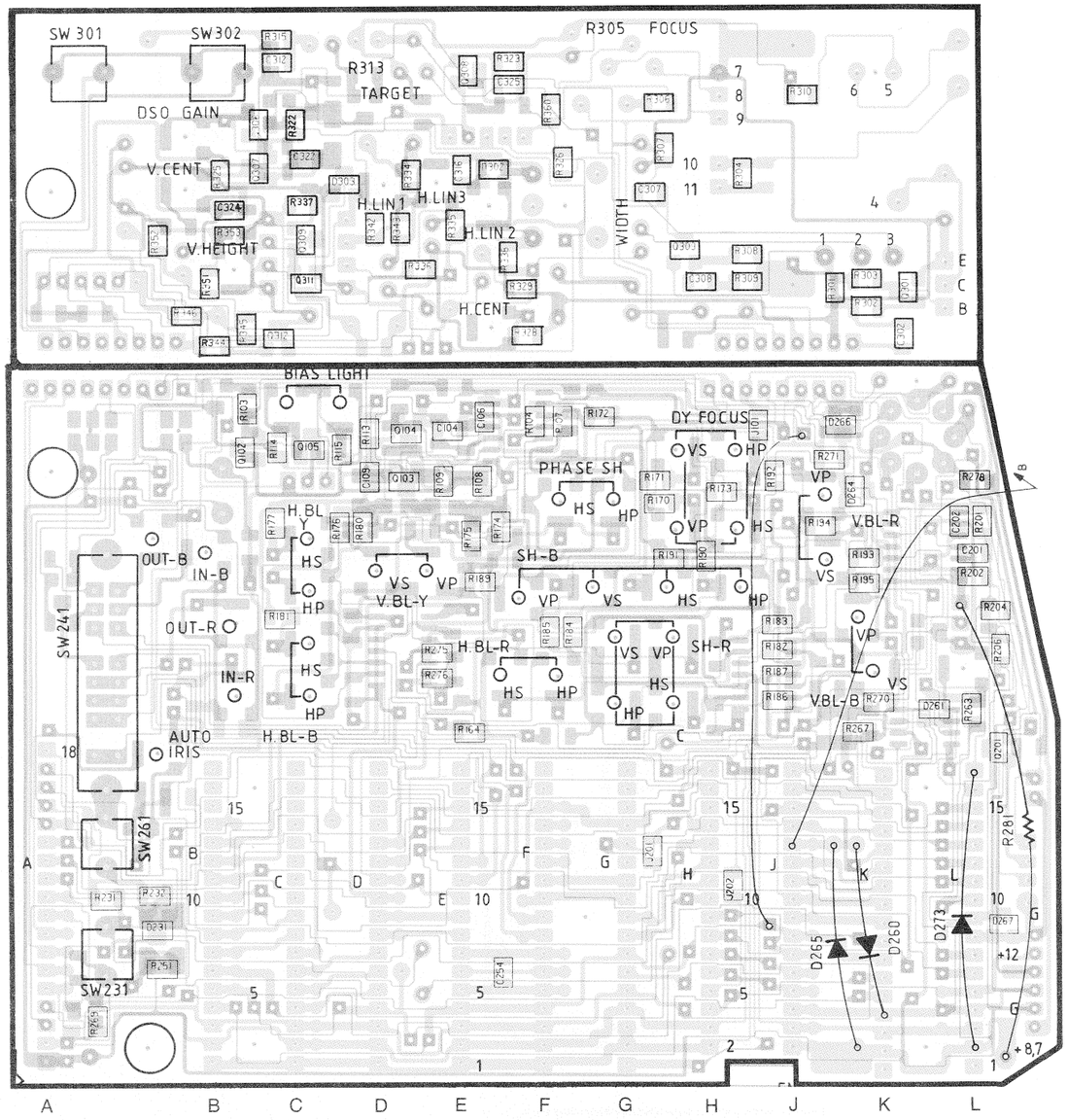
Grundplatte-Schaltbild
Motherboard-circuit diagram



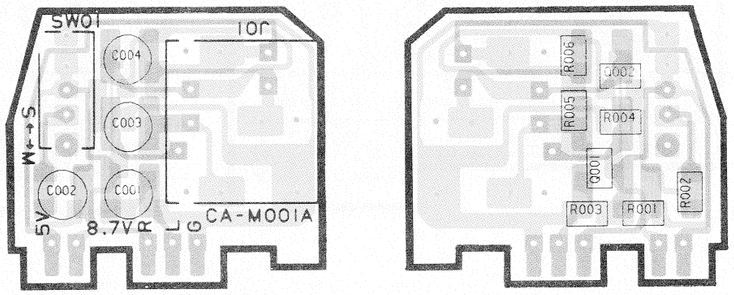


Grundplatte
Motherboard

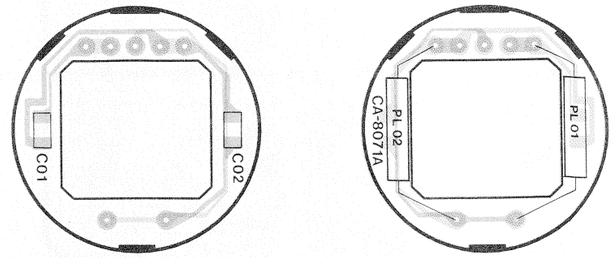




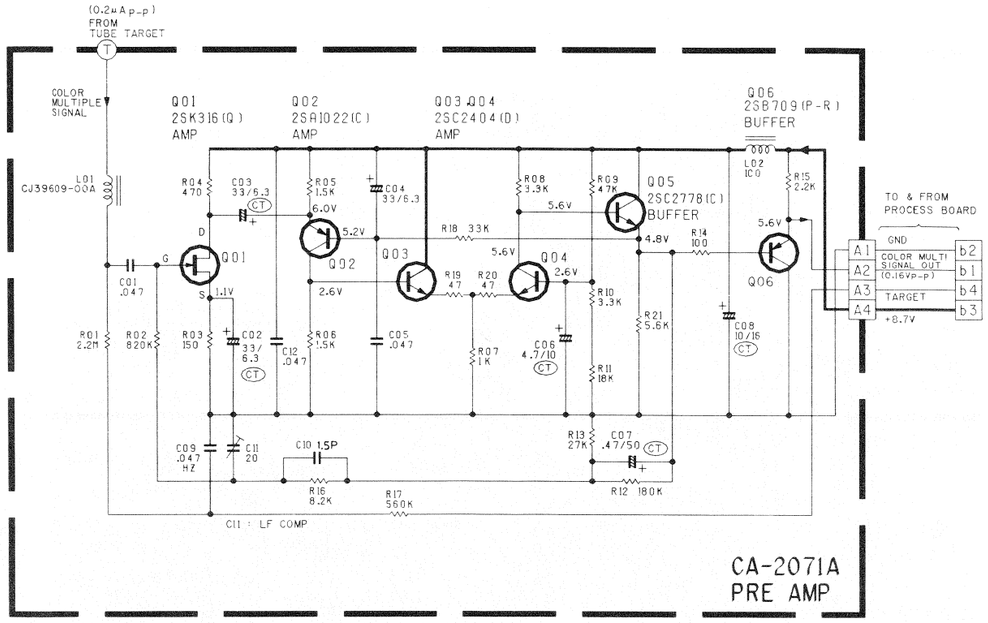
Mikrofonverstärker
Microphone Preamp

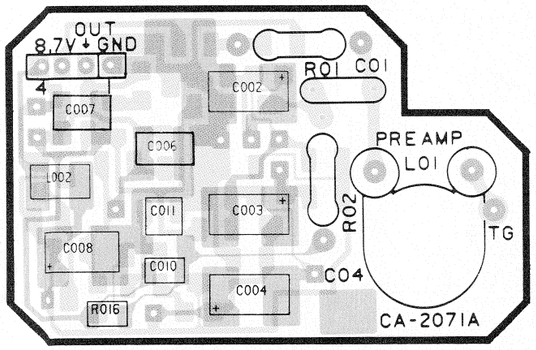


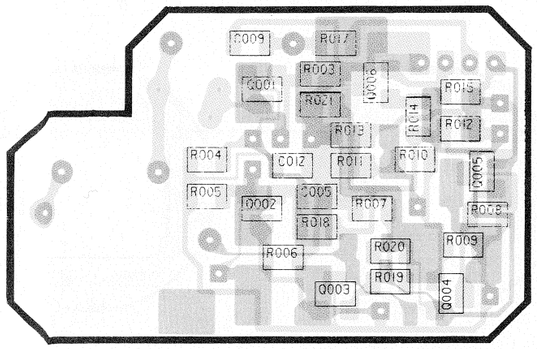
Ruhestrom-Platte
Bias light PWB



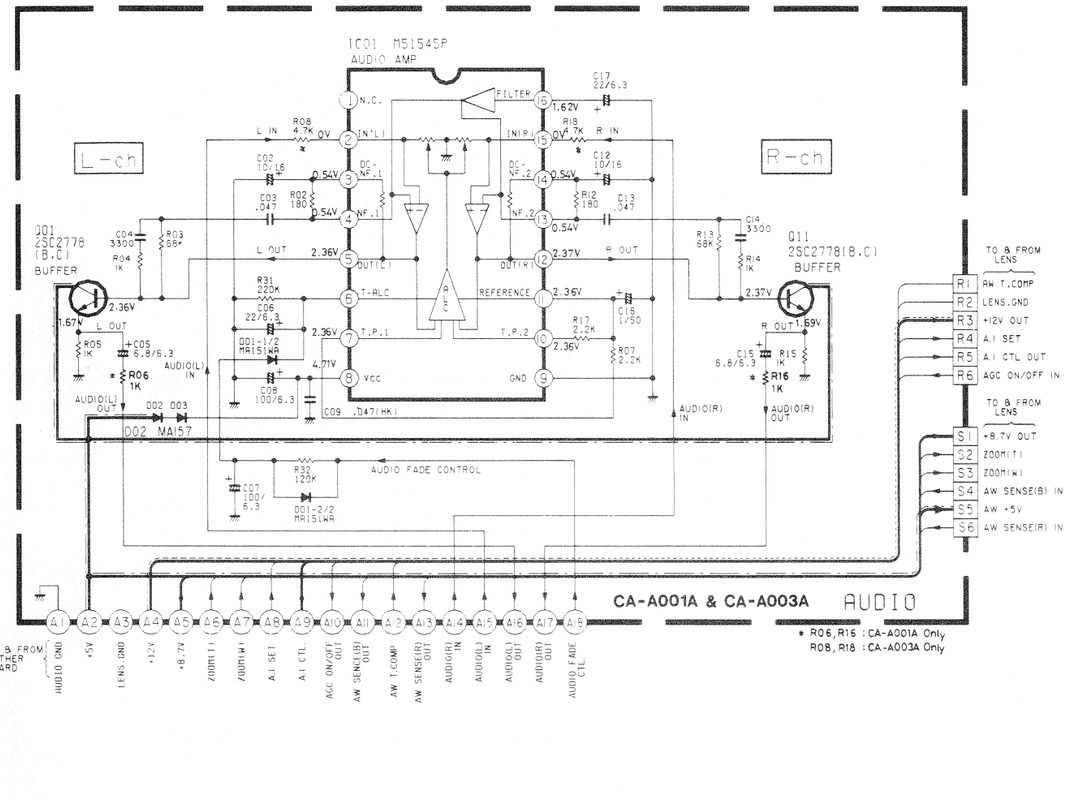
Vorverstärker
Preamplifier

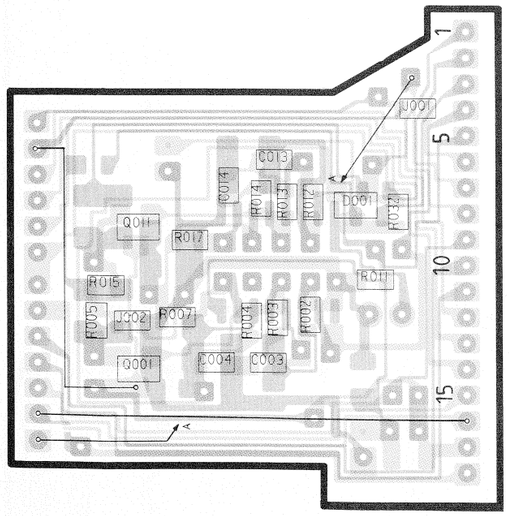


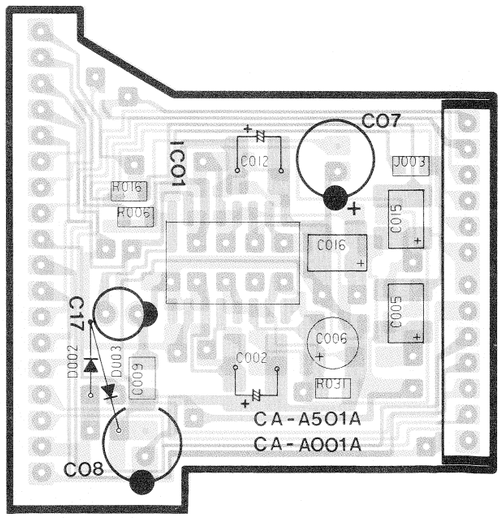




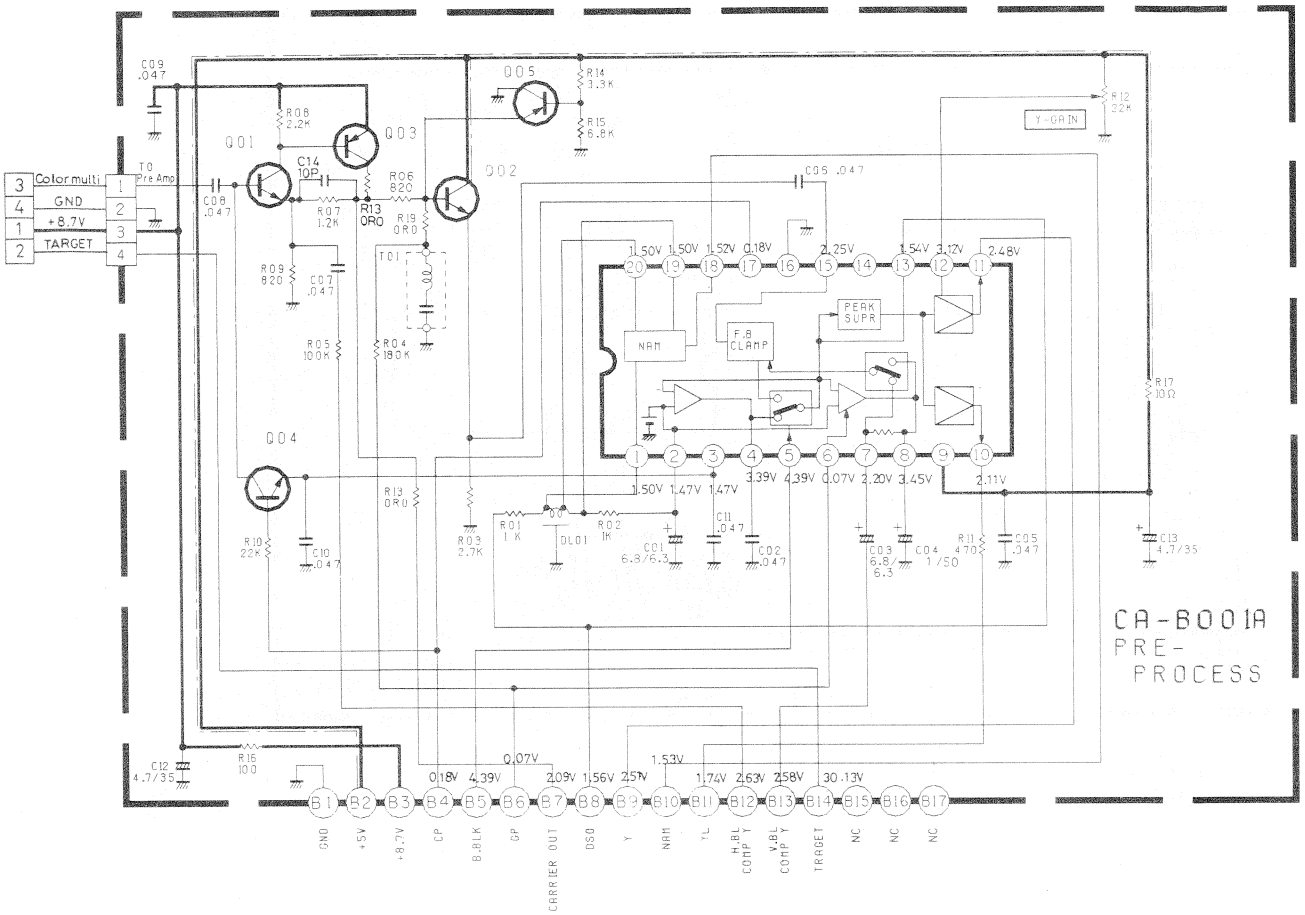
A Audioplatte
Audioboard

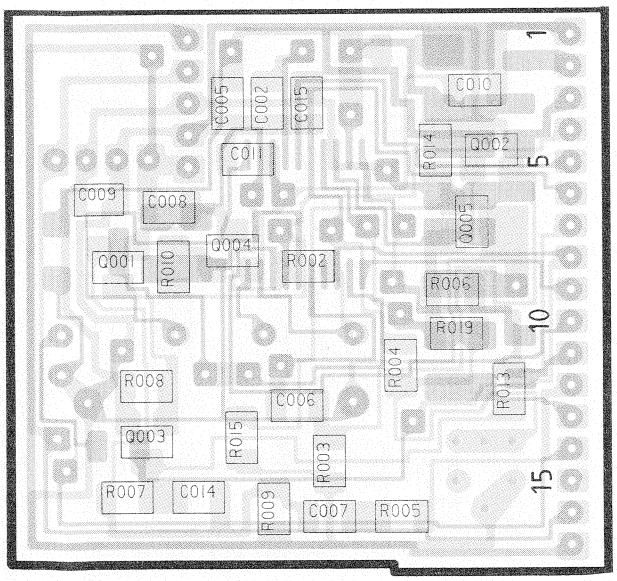


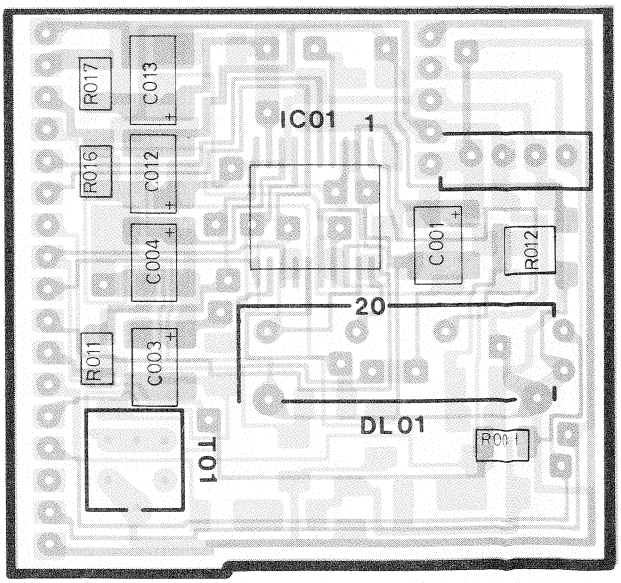




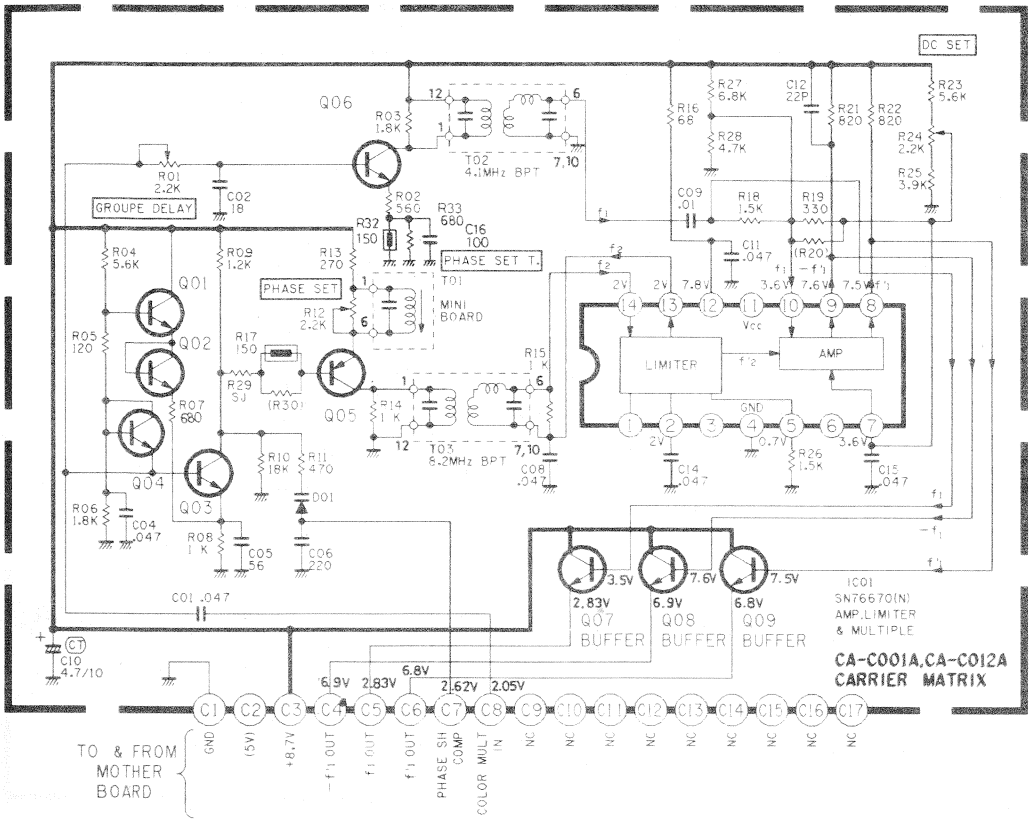
B Schwarzwertklemmung und Y/C-Trennstufe
Pre-process board

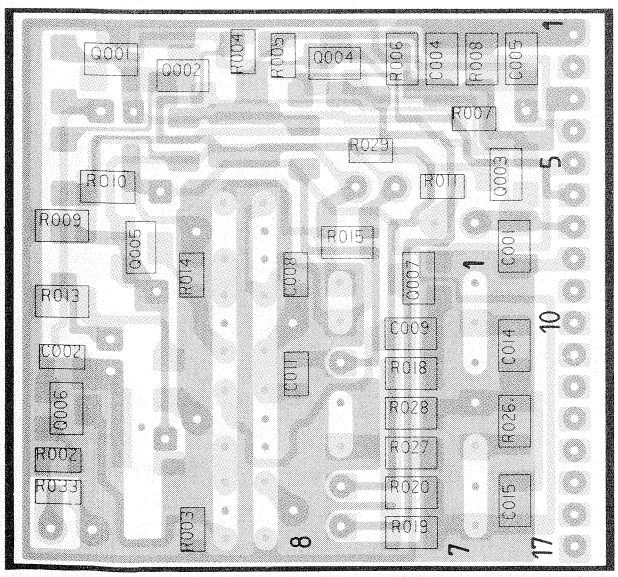


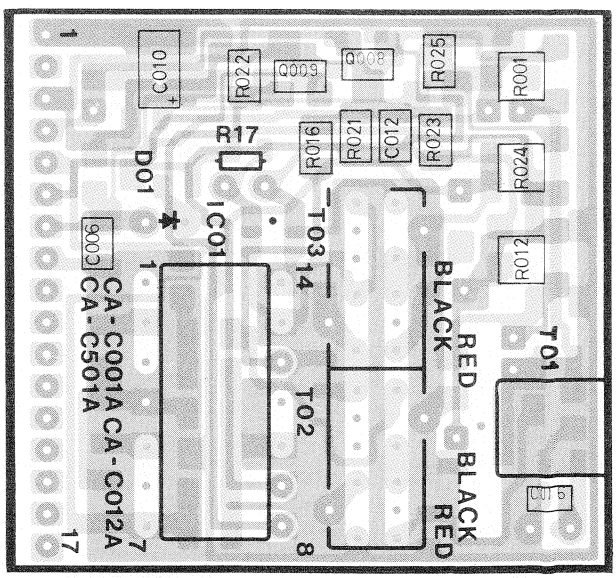




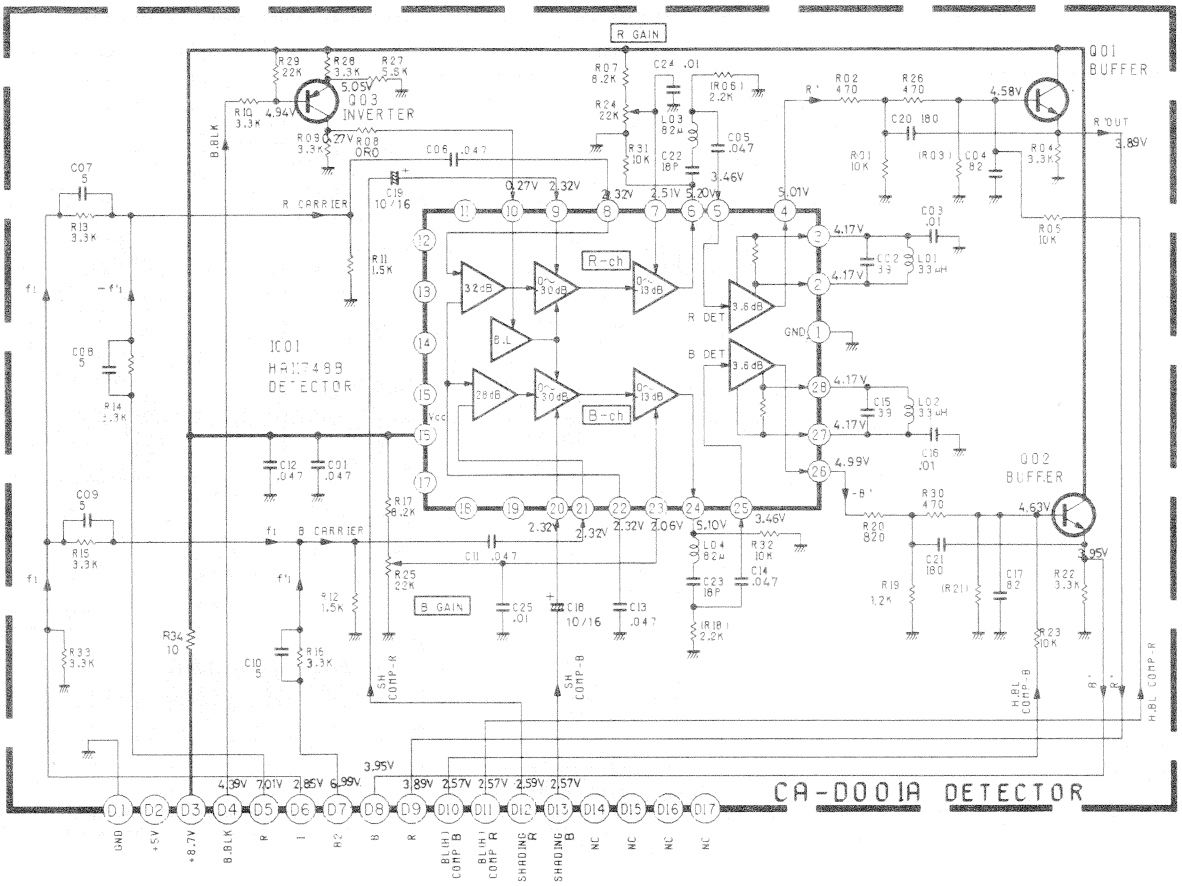
C Trägermatrix-Platte
Carrier matrix board

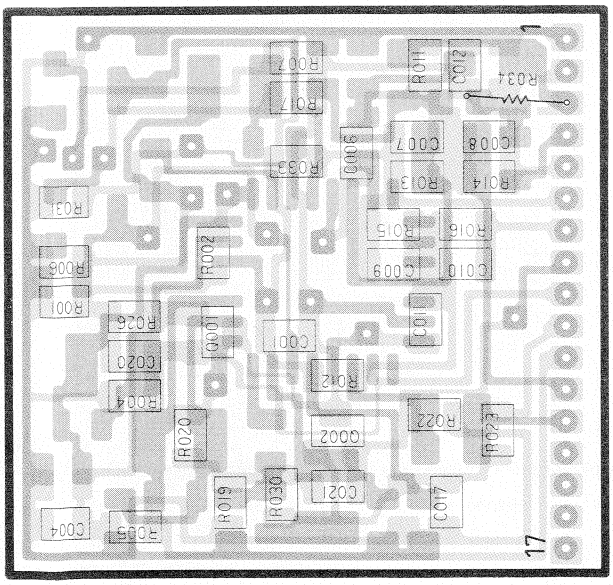


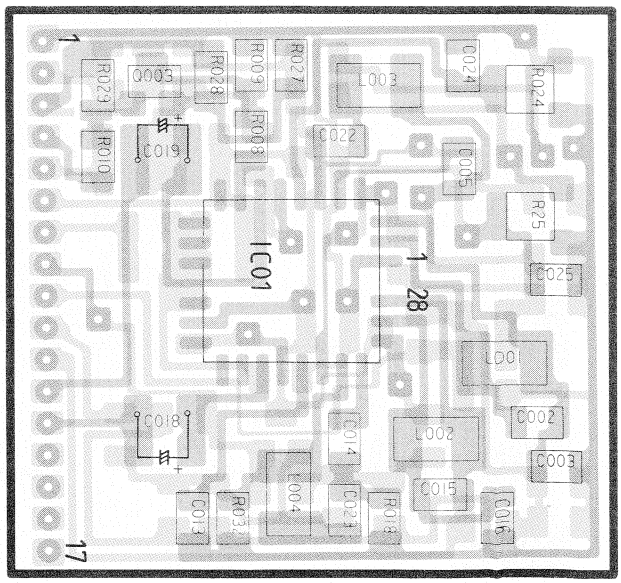




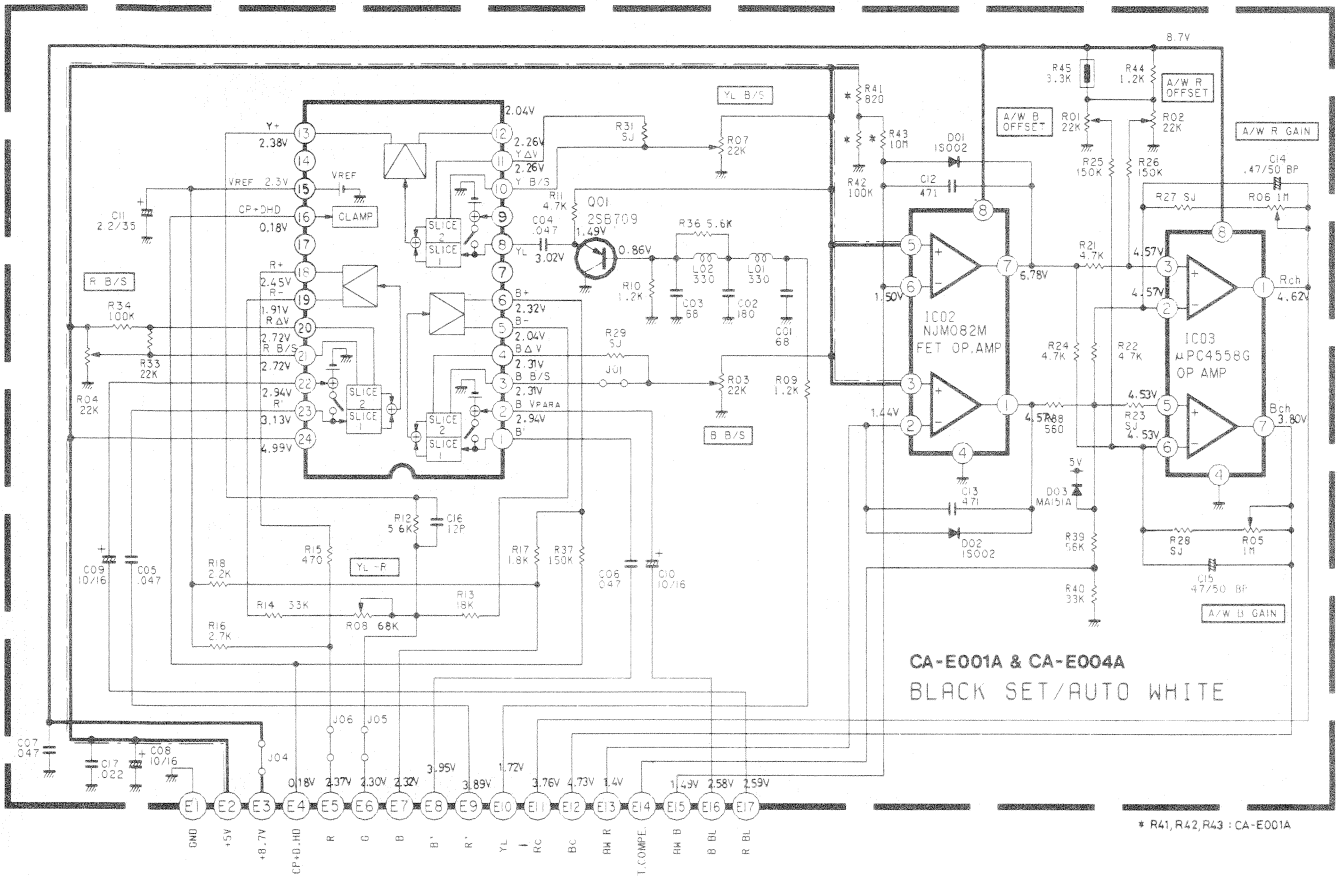
D R/B-Detektorplatte
R/B-Detector board

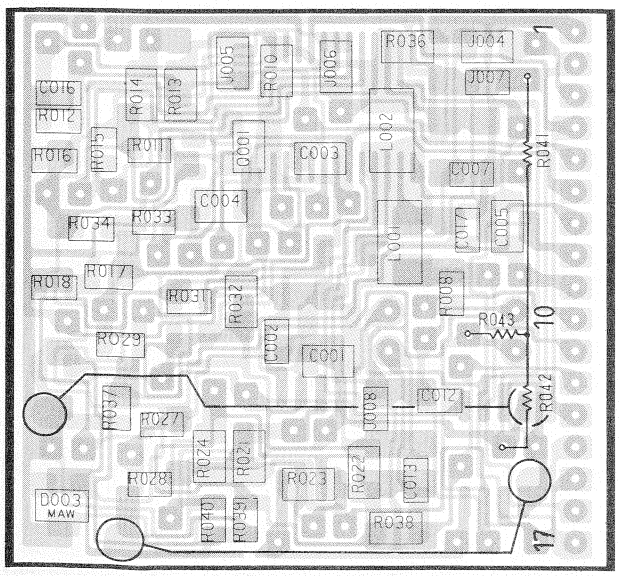


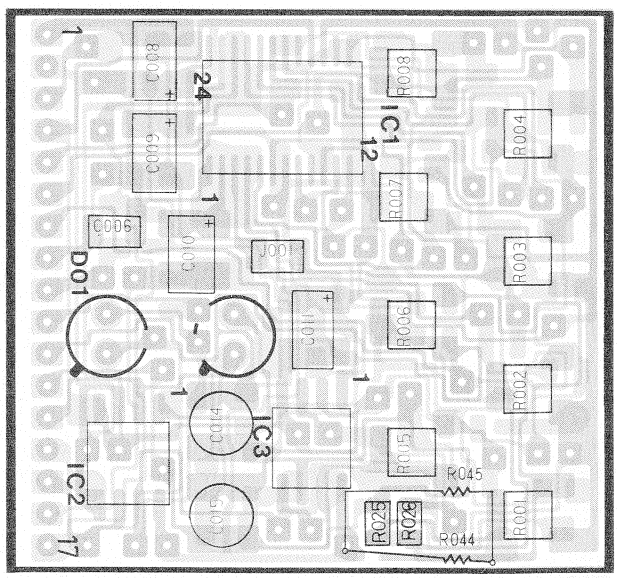




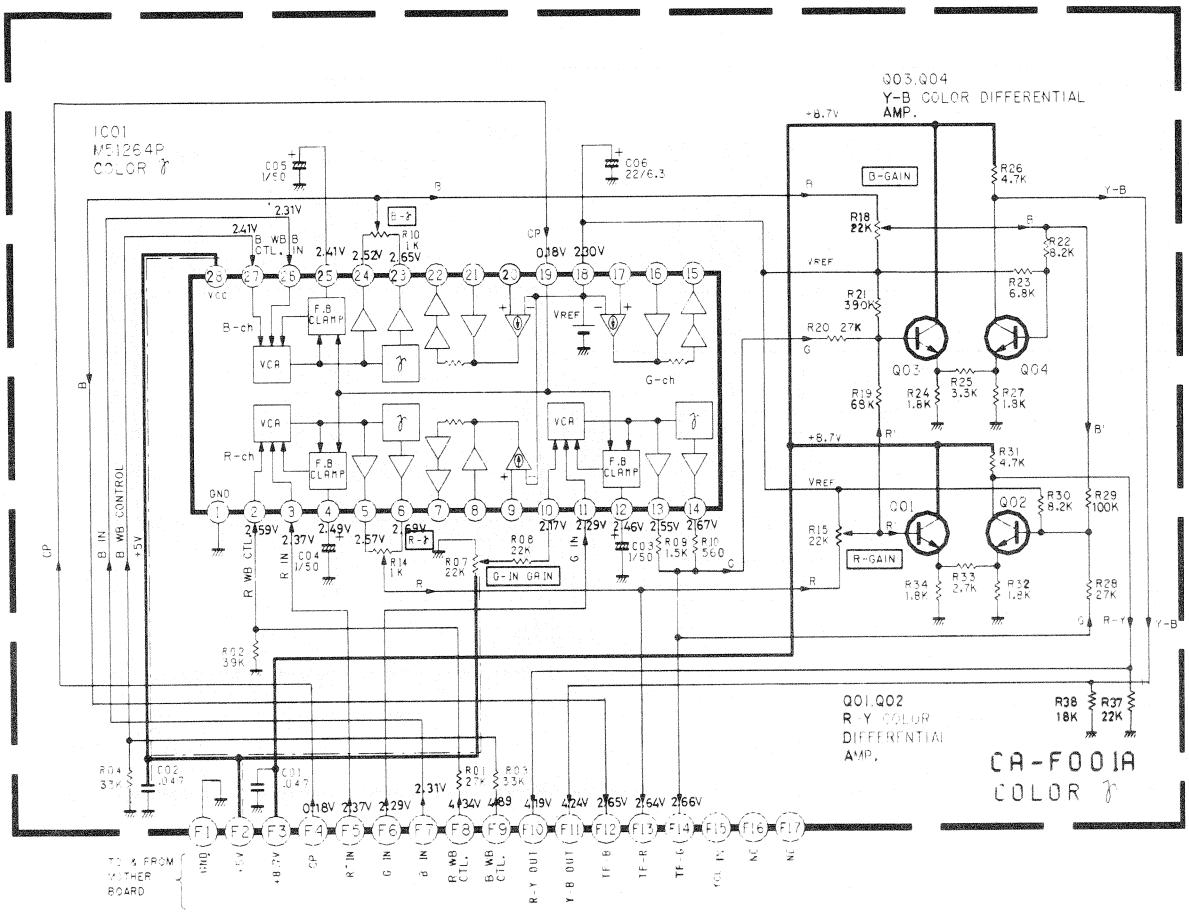
E Dunkelstromregelung/Weißabgleich-Platte
Black set/Auto white board

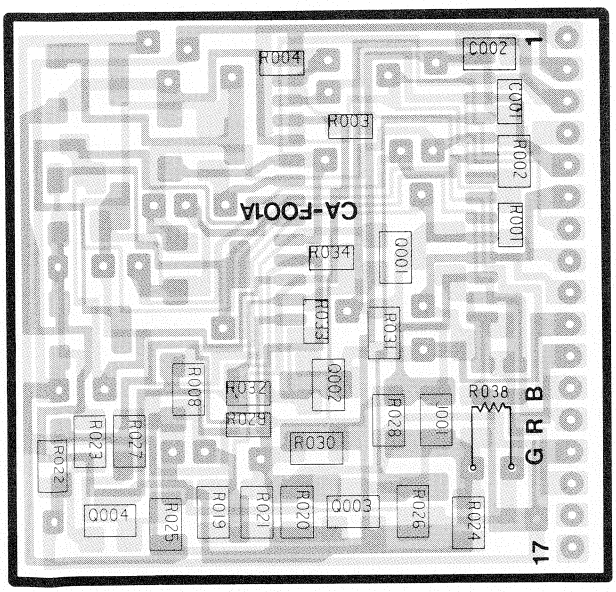


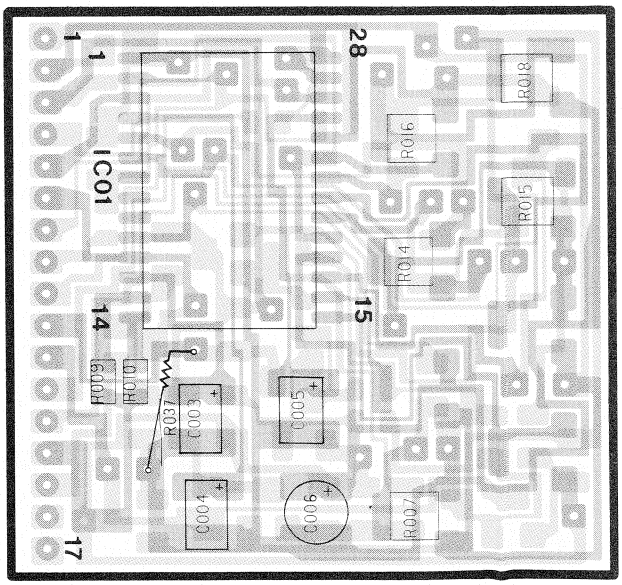




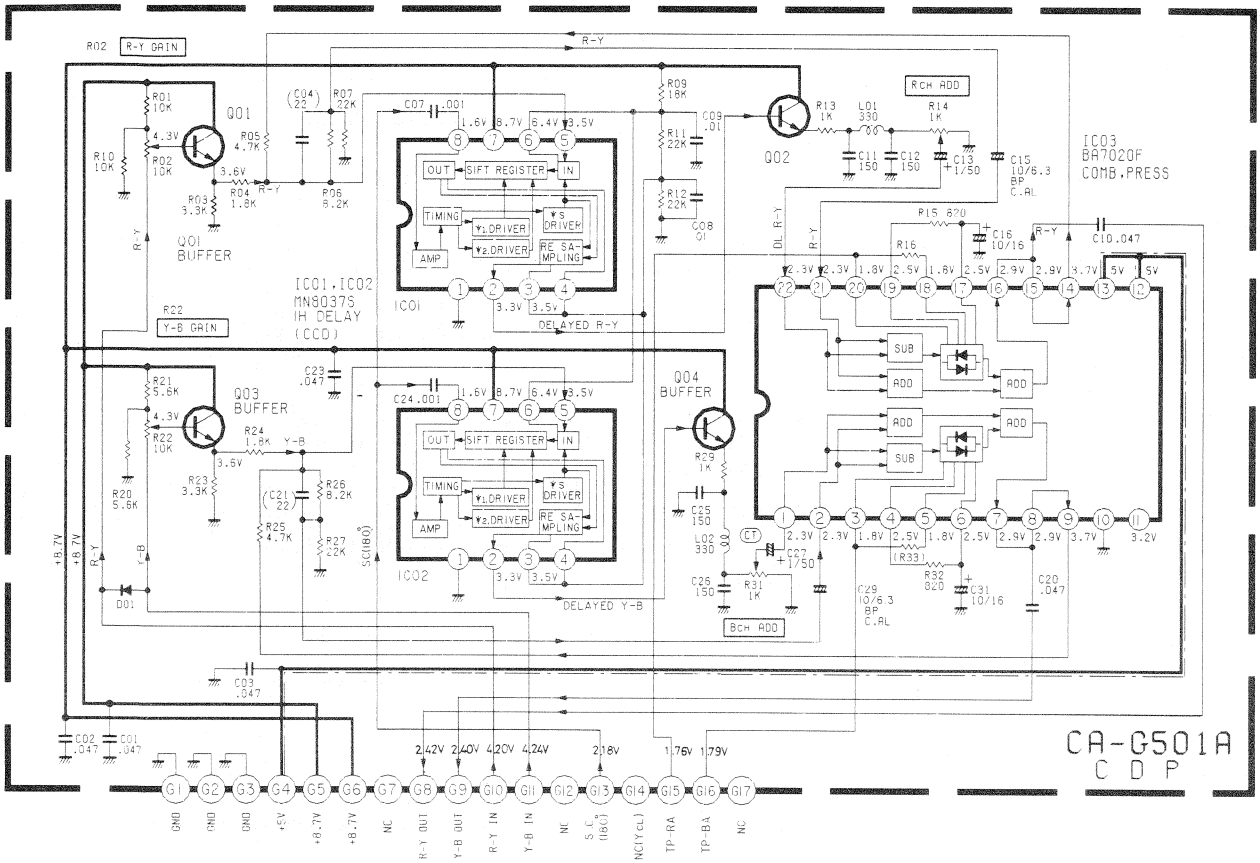
F Color-Gamma Platte
Color gamma board

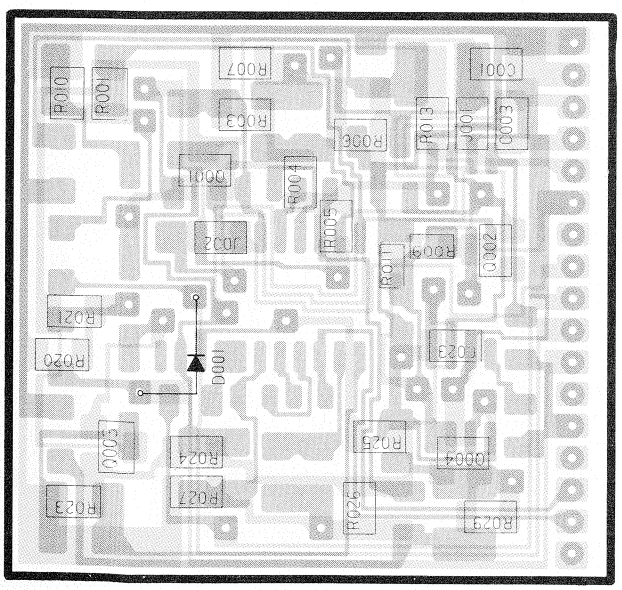


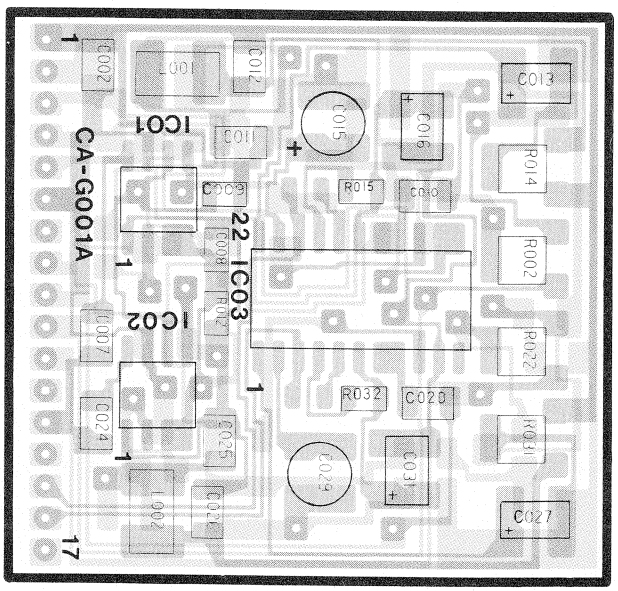




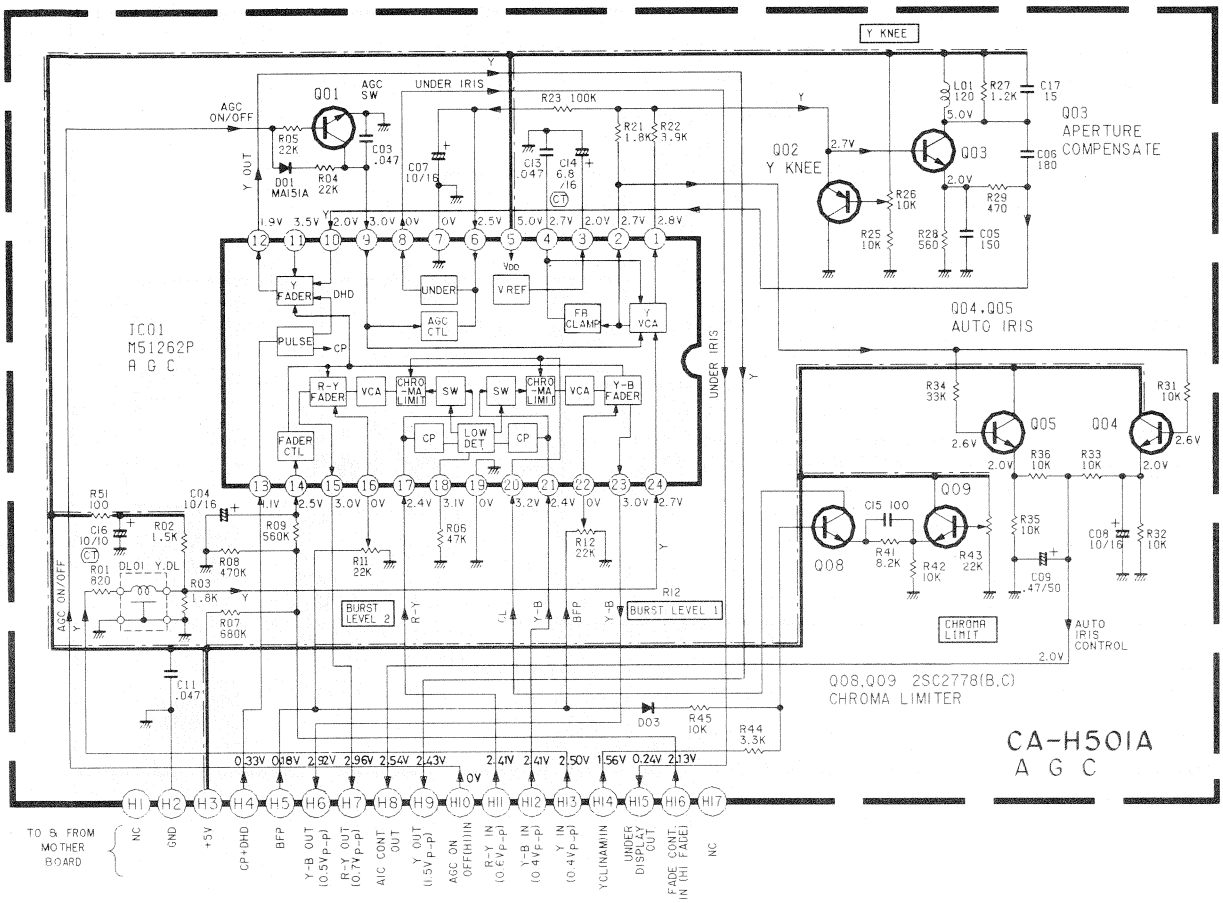
G Farbdifferenz-Prozessorplatte
CDP board

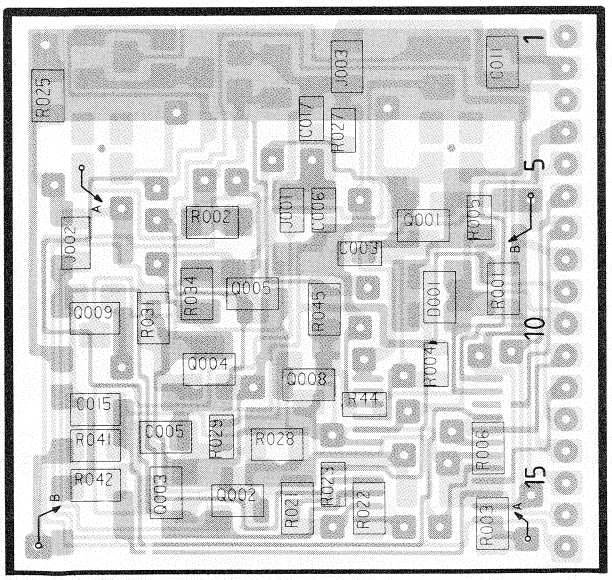


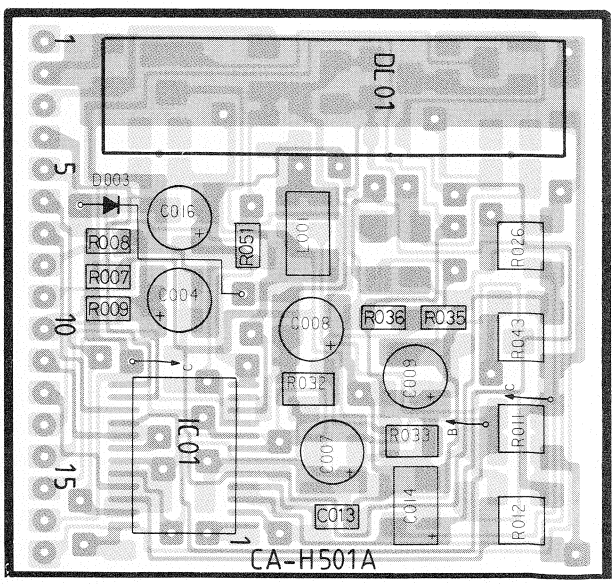




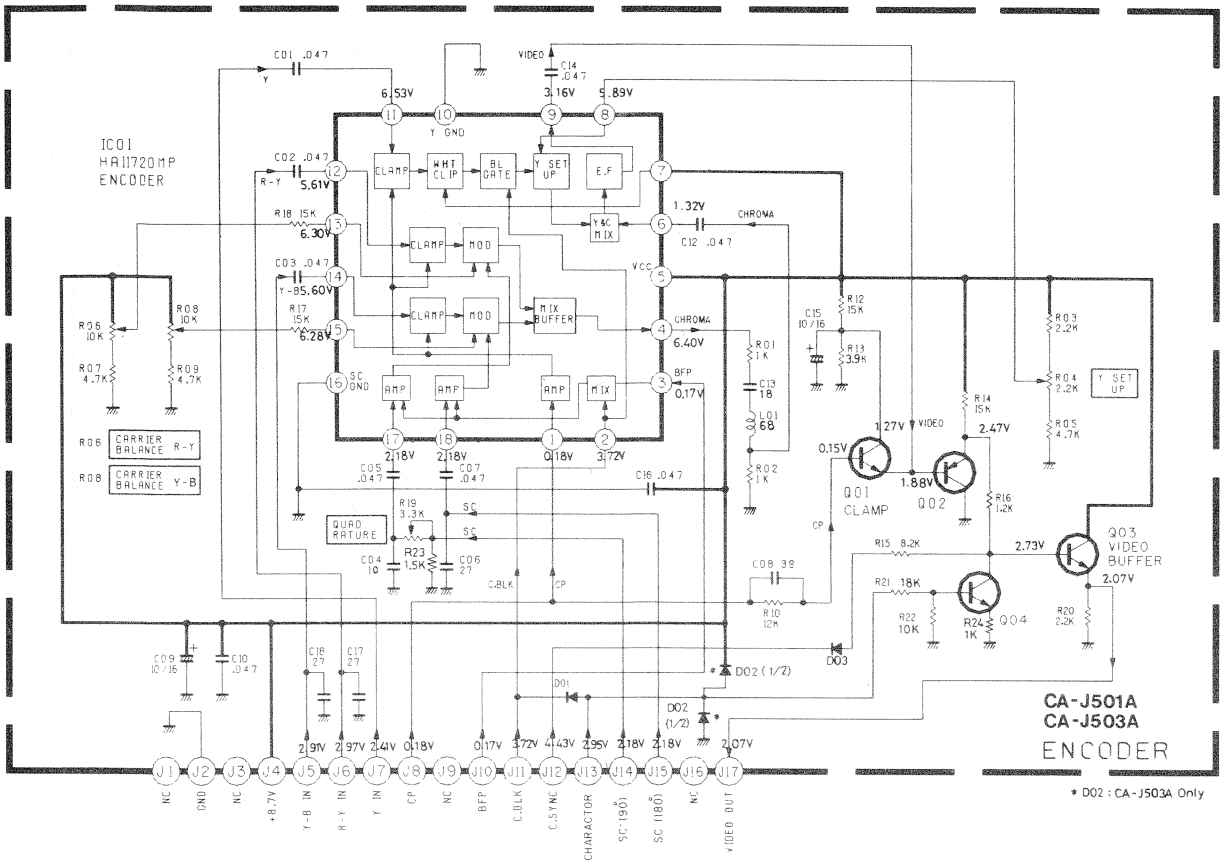
H Platte für Y-Verstärkungsregelung
AGC board

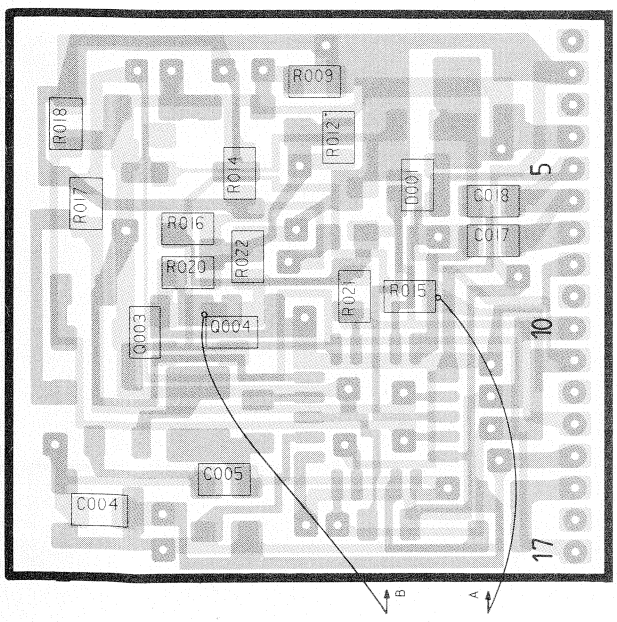


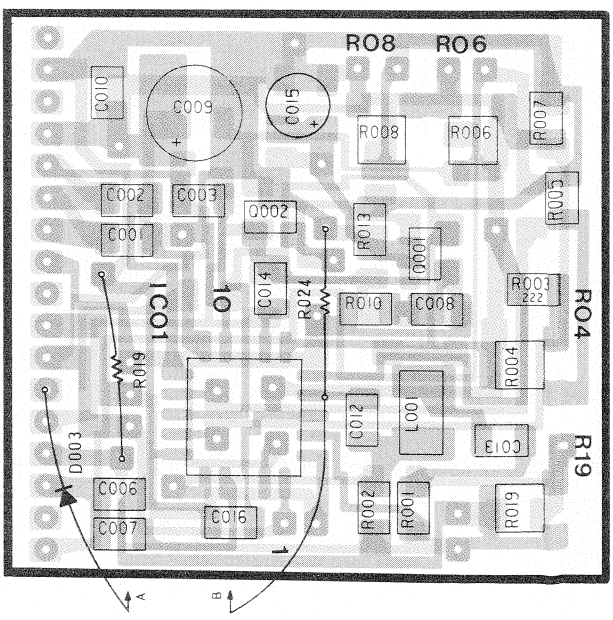




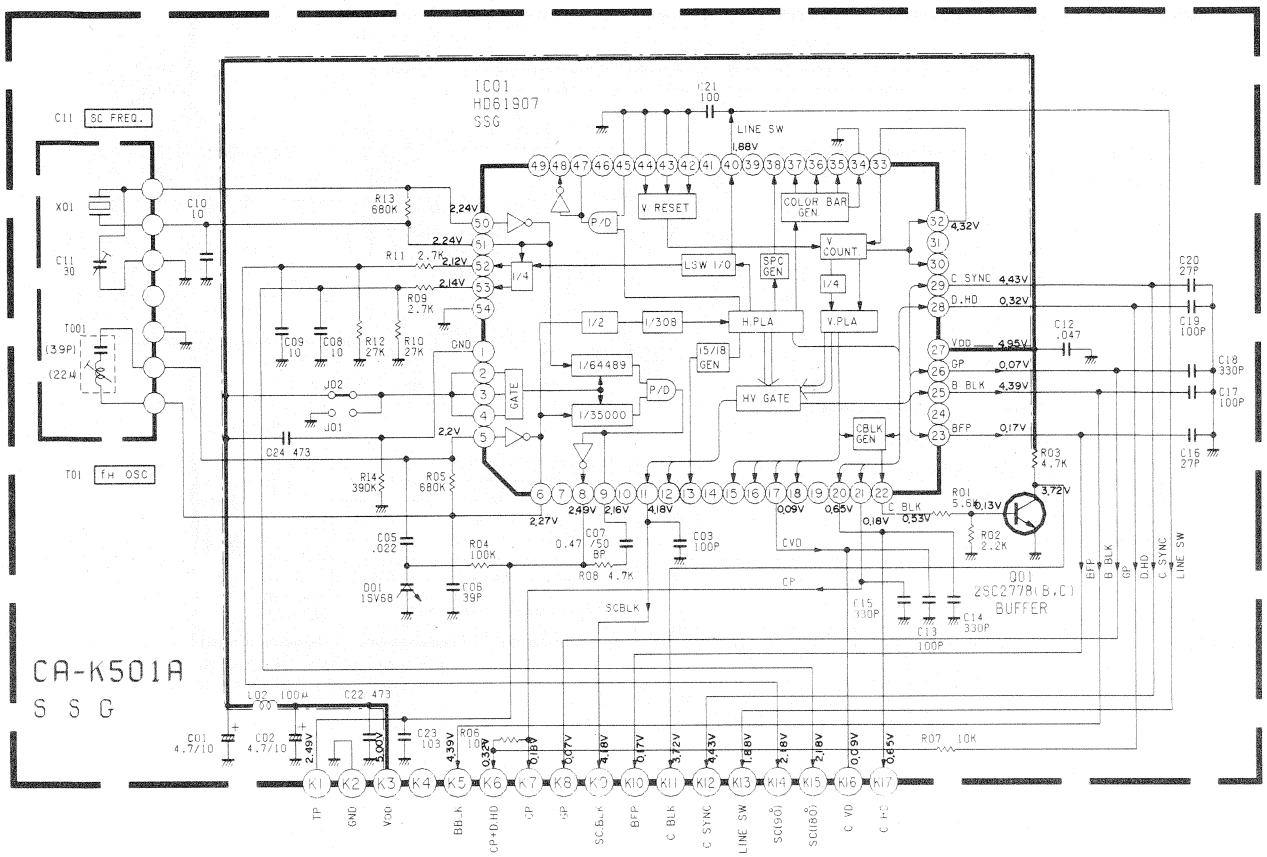
J Encoderplatte
Encoder board

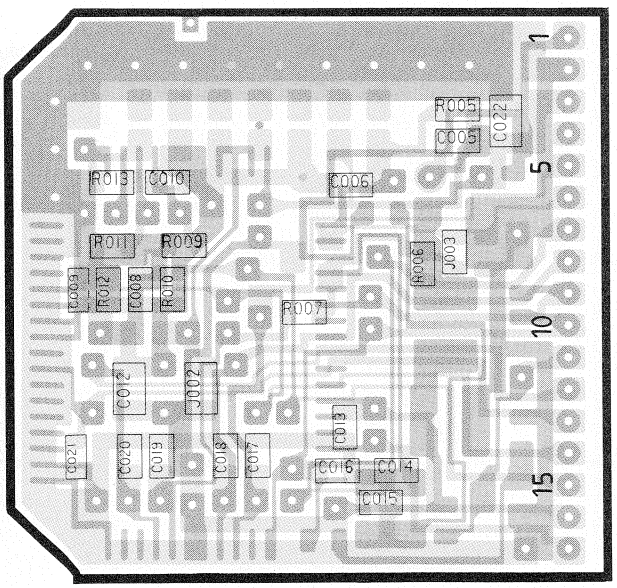


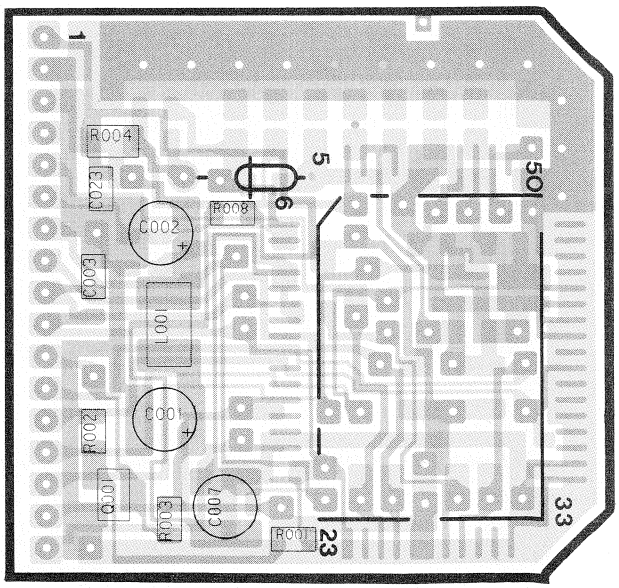




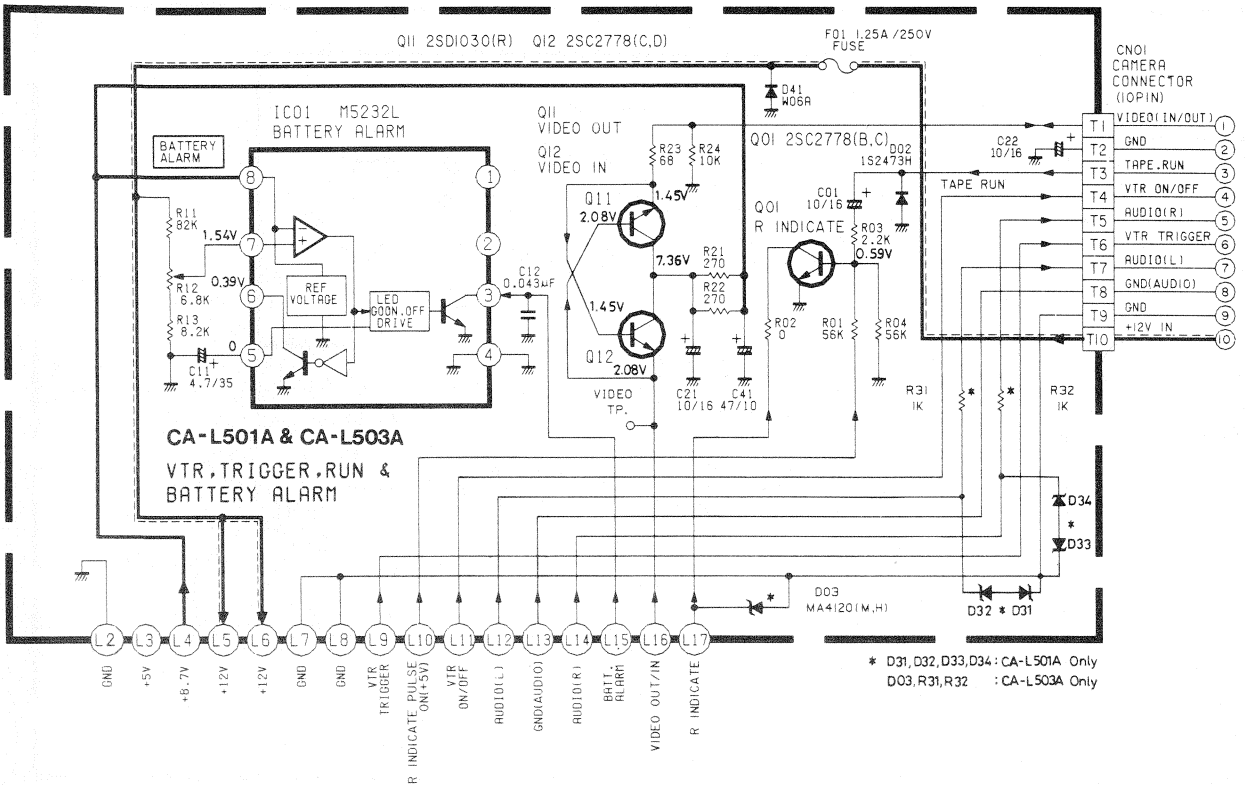
K Synchron Signal-Platte
SSG board

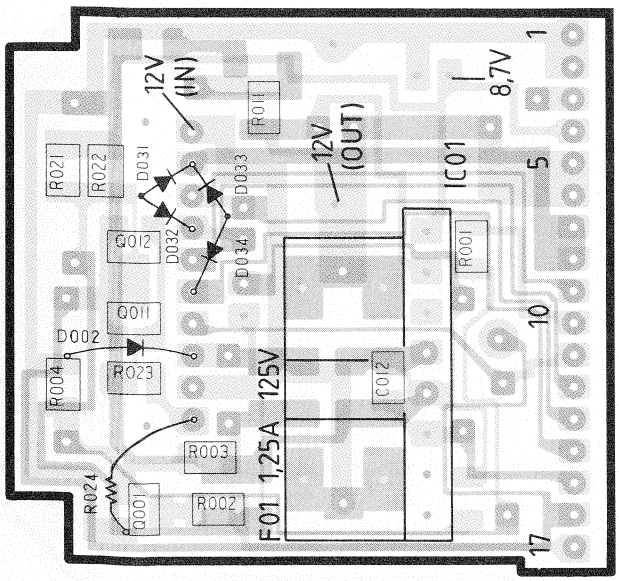


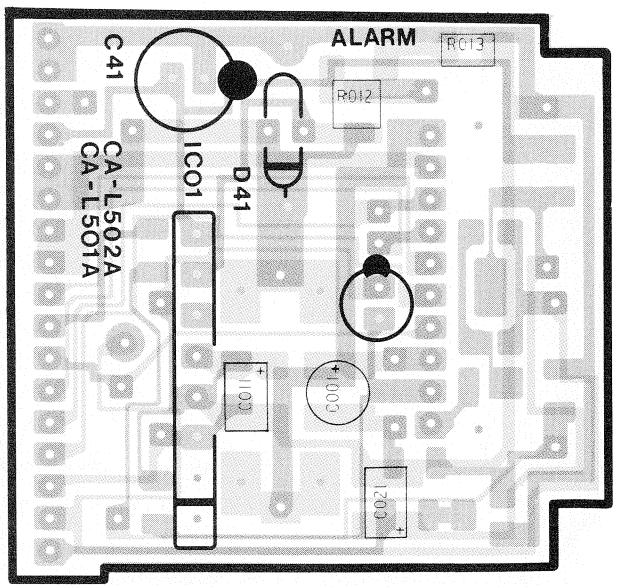


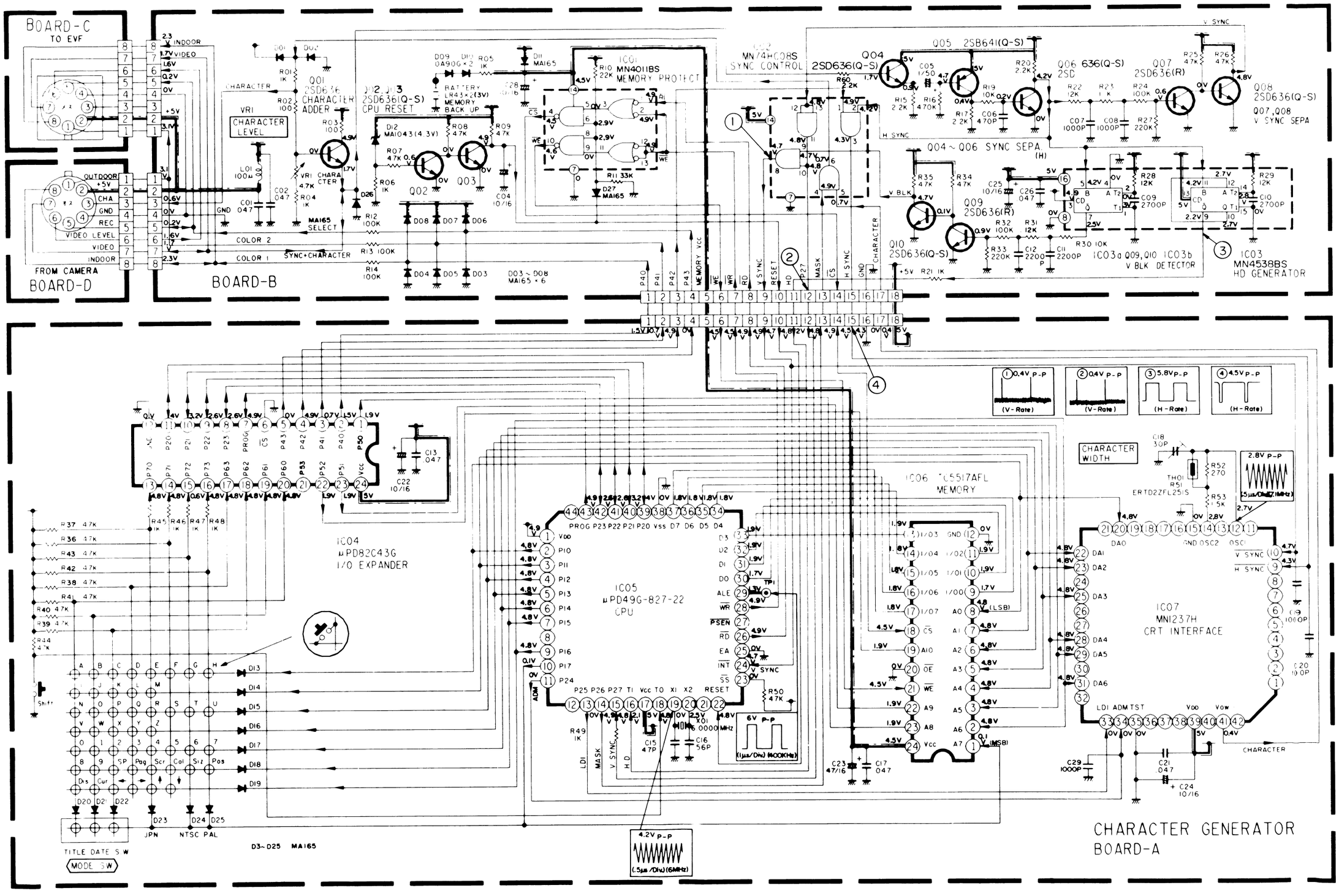


L Platte für Start/Stopfunktion, Aufnahme- und Akkuanzeige
VTR trigger, run- and battery alarm board








BOARD-C
TO EVF
FROM CAMERA
BOARD-D
BOARD-B
CHARACTER LEVEL
VR1
MA165 SELECT
SYNC+CHARACTER
COLOR 1
COLOR 2
IC01 MN4011BS MEMORY PROTECT
IC02 MN74HC08S SYNC CONTROL
Q01 2SD636 CHARACTER ADDER
Q02 Q03 2SD636(Q-S) CPU RESET
Q04 2SD636(Q-S)
Q05 2SB641(Q-S)
Q06 636(Q-S) 2SD
Q07 2SD636(R)
Q08 2SD636(Q-S)
Q07,Q08 V SYNC SEPA
Q04 ~ Q06 SYNC SEPA (H)
Q09 2SD636(R)
Q10 2SD636(Q-S)
IC03a Q09,Q10 IC03b V BLK DETECTOR
IC03 MN4538BS HD GENERATOR
IC04 μPD82C43G I/O EXPANDER
IC05 μPD49G-827-22 CPU
IC06 TC5517AFL MEMORY
IC07 MN1237H CRT INTERFACE
CHARACTER WIDTH
TITLE DATE S.W
MODE S.W
JPN
NTSC PAL
D3~D25 MA165
CHARACTER GENERATOR BOARD-A

Leiterplatten Titelgenerator · P.C.B.'s character generator